

AD-A144 193

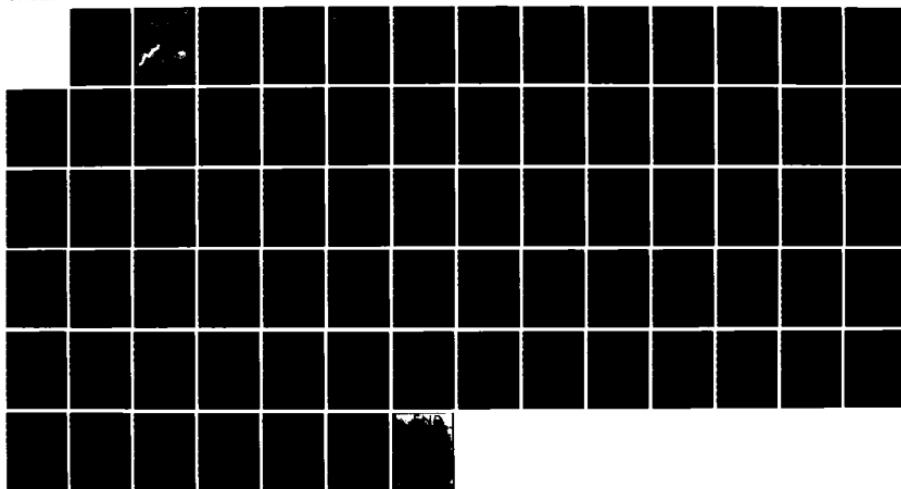
TRENDS IN THE PRODUCTION AND CONSUMPTION OF MAJOR  
FOREST PRODUCTS IN THE. (U) FOREST PRODUCTS LAB MADISON  
WI D B MCKEEVER ET AL. JUN 84 FSRB-FPL-14A

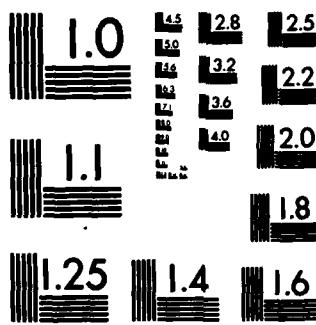
1/1

UNCLASSIFIED

F/G 11/12

NL





MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

United States  
Department of  
Agriculture

Forest Ser

Forest  
Products  
Laboratory

Resource  
Bulletin  
FPL 14 A

June 1984

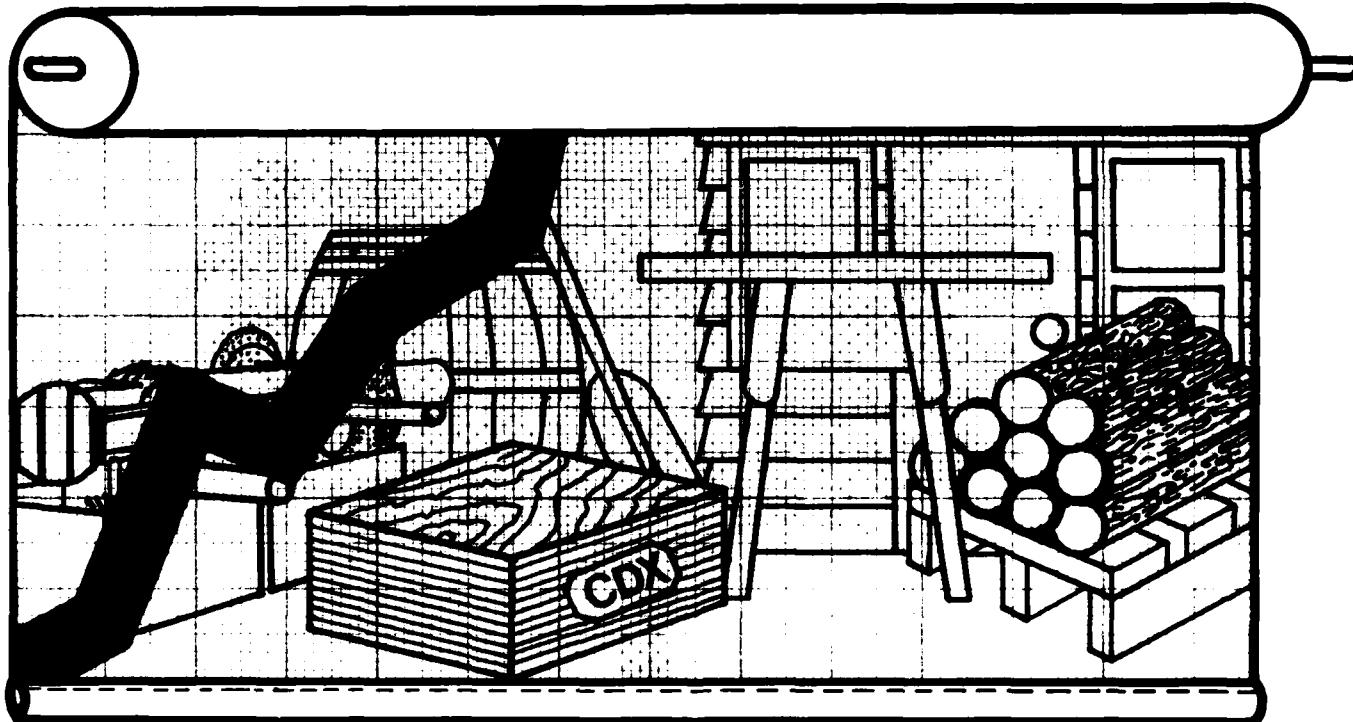


AD-A144 193

# Trends in the Production and Consumption of Major Forest Products in the United States

## Charts for Use in Classes and Meetings

David B. McKeever  
Cherilyn A. Hatfield



DTIC FILE COPY

DTIC  
ELECTE  
S AUG 8 1984 D

D

84 08 06 107

DISTRIBUTION STATEMENT A  
Approved for public release;  
Distribution Unlimited

## Abstract

This publication presents 124 charts on past trends in the production, consumption, and foreign trade of forest products in the United States. The charts have been printed full-page width for use (with opaque projectors or in making overhead transparencies) as visual aids by teachers, state and federal resource managers, industry personnel, or anyone else interested in communicating this information.

**Keywords:** Timber products output, timber commodities, foreign trade, wood products production, wood products consumption, end-use demand.

## Note

This publication contains 124 charts printed in a large format for use with opaque projectors or in preparing transparencies for overhead projectors. These charts along with 61 tables and a glossary of terms are contained in a companion publication printed by the Forest Service. The additional information in the glossary and tables, coupled with the smaller format of the charts, makes the companion publication more suitable for use as a reference book. The bibliographic citation for the companion publication is as follows:

McKeever, David B.; Hatfield, Cherilyn A. Trends in the production and consumption of major forest products in the United States. Resour. Bull. FPL 14. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory; 1984.

The address for ordering the companion publication is as follows:

Information Office  
Forest Products Laboratory  
P.O. Box 5130  
Madison, WI 53705

Supplies of all Laboratory publications are limited.

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
P/I	z )

*8210  
COPY  
RECORDED*

June 1984

McKeever, David B.; Hatfield, Cherilyn A. Trends in the production and consumption of major forest products in the United States: Charts for use in classes or meetings. Resour. Bull. FPL 14 A. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory; 1984. 71 p.

A limited number of free copies of this publication are available to the public from the Forest Products Laboratory, P.O. Box 5130, Madison, WI 53705. Laboratory publications are sent to over 1,000 libraries in the United States and elsewhere.

The Laboratory is maintained in cooperation with the University of Wisconsin.

## Contents

	Page
Introduction . . . . .	1
U.S. Timber Products Output—Figures 1-18 . . . . .	2
Sawlogs (figs. 1-3) . . . . .	2
Veneer Logs (figs. 4-6) . . . . .	3
Pulpwood (figs. 7-9) . . . . .	5
Miscellaneous Industrial Products (figs. 10-12) . . . . .	6
Miscellaneous Timber Products (figs. 13 and 14) . . . . .	8
Fuelwood (figs. 15-18) . . . . .	9
U.S. Timber Commodities—Figures 19-48 . . . . .	11
Lumber (figs. 19-24) . . . . .	11
Plywood (figs. 25-29) . . . . .	14
Particleboard and Medium-Density Fiberboard (figs. 30-32) . . . . .	16
Hardboard (figs. 33 and 34) . . . . .	18
Insulation Board (figs. 35 and 36) . . . . .	19
Pulpwood (figs. 37 and 38) . . . . .	20
Woodpulp (figs. 39-48) . . . . .	21
Foreign Trade—Figures 49-57 . . . . .	26
Lumber (figs. 49-51) . . . . .	26
Plywood (figs. 52-54) . . . . .	27
Particleboard and Medium-Density Fiberboard (fig. 55) . . . . .	29
Hardboard and Insulation Board (figs. 56 and 57) . . . . .	29
U.S. End-Use Demand for Timber—Figures 58-124 . . . . .	31
Wood Products Used in Manufactured Goods (figs. 58-70) . . . . .	31
Lumber (figs. 58-63) . . . . .	31
<i>Millwork and Prefabricated Housing (fig. 58)</i>	
<i>Furniture and Fixtures (fig. 59)</i>	
<i>Containers and Pallets (fig. 60)</i>	
<i>Industrial Patterns, Signs, Displays (fig. 61)</i>	
<i>Ship and Boat Building and Repair,                 Agricultural Implements (fig. 62)</i>	
<i>Sporting Goods, Toys, Games, Musical                 Instruments (fig. 63)</i>	
Hardwood Lumber (figs. 64-70) . . . . .	34
<i>Millwork and Prefabricated Housing (fig. 64)</i>	
<i>Furniture and Fixtures (fig. 65)</i>	
<i>Containers and Pallets (fig. 66)</i>	
<i>Industrial Patterns, Signs, Displays (fig. 67)</i>	
<i>Ship and Boat Building and Repair,                 Agricultural Implements (fig. 68)</i>	
<i>Sporting Goods, Toys, Games, Musical                 Instruments (fig. 69)</i>	
<i>Caskets (fig. 70)</i>	
Wood Products Used by Manufacturing Industries (figs. 71-91) . . . . .	37
Lumber (figs. 71-76) . . . . .	37
<i>Lumber and Wood Products Industries                 (figs. 71 and 72)</i>	
<i>Furniture and Fixtures Industries                 (figs. 73 and 74)</i>	
<i>Other Selected Wood-Using Industries                 (figs. 75 and 76)</i>	
Plywood and Veneer (figs. 77-82) . . . . .	40
<i>Lumber and Wood Products Industries                 (figs. 77 and 78)</i>	
<i>Furniture and Fixtures Industries                 (figs. 79 and 80)</i>	
<i>Other Selected Wood-Using Industries         (figs. 81 and 82)</i>	
Hardboard (figs. 83-85) . . . . .	43
<i>Lumber and Wood Products Industries (fig. 83)</i>	
<i>Furniture and Fixtures Industries (fig. 84)</i>	
<i>Other Selected Wood-Using Industries (fig. 85)</i>	
Insulation Board (figs. 86-88) . . . . .	45
<i>Lumber and Wood Products Industries (fig. 86)</i>	
<i>Furniture and Fixtures Industries (fig. 87)</i>	
<i>Other Selected Wood-Using Industries (fig. 88)</i>	
Particleboard and Medium-Density Fiberboard (figs. 89-91) . . . . .	46
<i>Lumber and Wood Products Industries (fig. 89)</i>	
<i>Furniture and Fixtures Industries (fig. 90)</i>	
<i>Other Selected Wood-Using Industries (fig. 91)</i>	
Paper, Paperboard, and Newsprint (figs. 92 and 93) . . . . .	48
<i>Paper and Paperboard Consumption (fig. 92)</i>	
<i>Newsprint Production and Consumption (fig. 93)</i>	
Miscellaneous Wood Products Consumption (figs. 94-102) . . . . .	50
<i>Hardwood Flooring (fig. 94)</i>	
<i>Cooperage (fig. 95)</i>	
<i>Crossties (fig. 96)</i>	
<i>Pallets (fig. 97)</i>	
<i>Mine Timbers (fig. 98)</i>	
<i>Post and Pilings (fig. 99)</i>	
<i>Poles (fig. 100)</i>	
<i>Fenceposts (fig. 101)</i>	
<i>Excelsior and Wood Flour (fig. 102)</i>	
Wood Products Used in Mobile Homes (figs. 103 and 104) . . . . .	56
Wood Products Used in Housing (figs. 105 and 106) . . . . .	57
Wood Products Used in Nonresidential and Nonhousekeeping Construction (figs. 107-124) . . . . .	59
<i>All Wood Products (fig. 107)</i>	
<i>Lumber and Plywood (figs. 108-115)</i>	
<i>Lumber and Plywood, Area Basis             (figs. 116-119)</i>	
<i>Other Wood Products (figs. 120-122)</i>	
<i>Other Wood Products, Area Basis             (figs. 123 and 124)</i>	
Appendix . . . . .	67
<i>Standard Industrial Classification (SIC) System             Definitions of Industries included in             Figures 71-91 (table A-1)</i>	68

# **Trends in the Production and Consumption of Major Forest Products in the United States**

## **Charts for Use in Classes and Meetings**

**David B. McKeever, Research Forester  
Cherilyn A. Hatfield, Statistical Assistant  
Forest Products Laboratory, Madison, Wis.**

### **Introduction**

This report presents 124 charts (figs. 1-124) of statistical information on past trends in the production, consumption, and foreign trade of forest products in the United States. The intent is to provide charts for use in classes or meetings by anyone interested in communicating this information, such as teachers, industry personnel, or state and federal resource managers. The large format of the charts makes them suitable for use with opaque projectors or in preparing transparencies for overhead projectors.

The charts are grouped in four parts:

1. Timber products output (figs. 1-18)
2. Timber commodities (figs 19-48)
3. Foreign trade (figs. 49-57)
4. End-use demand for timber (figs. 58-124).

Data for these charts were obtained from a variety of published sources, including U.S. Department of Agriculture Forest Service research reports, U.S. Department of commerce industry reports, and trade association reports.

The Standard Industrial Classification (SIC) system definitions of industries included in figures 71-91 are listed in the appendix.

## U.S. Timber Products Output

### Sawlogs

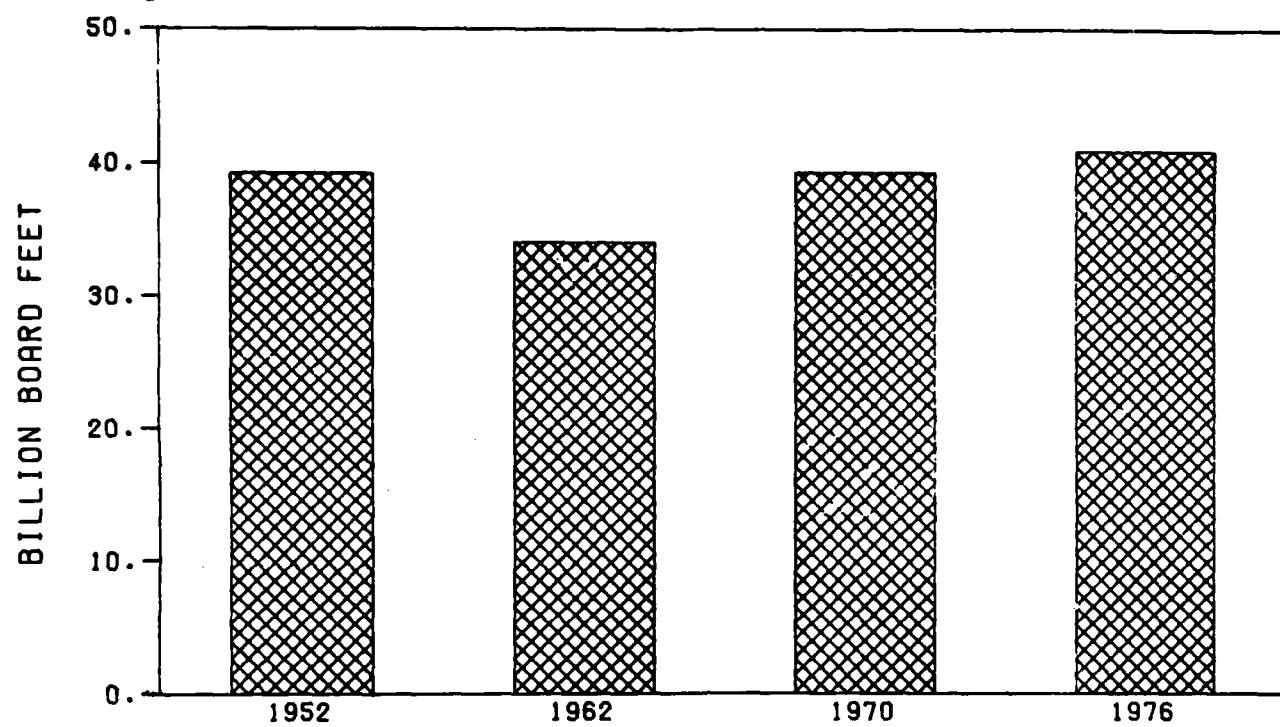


Figure 1.--Sawlog production in the United States, 1952, 1962, 1970, and 1976. (ML84 5001)

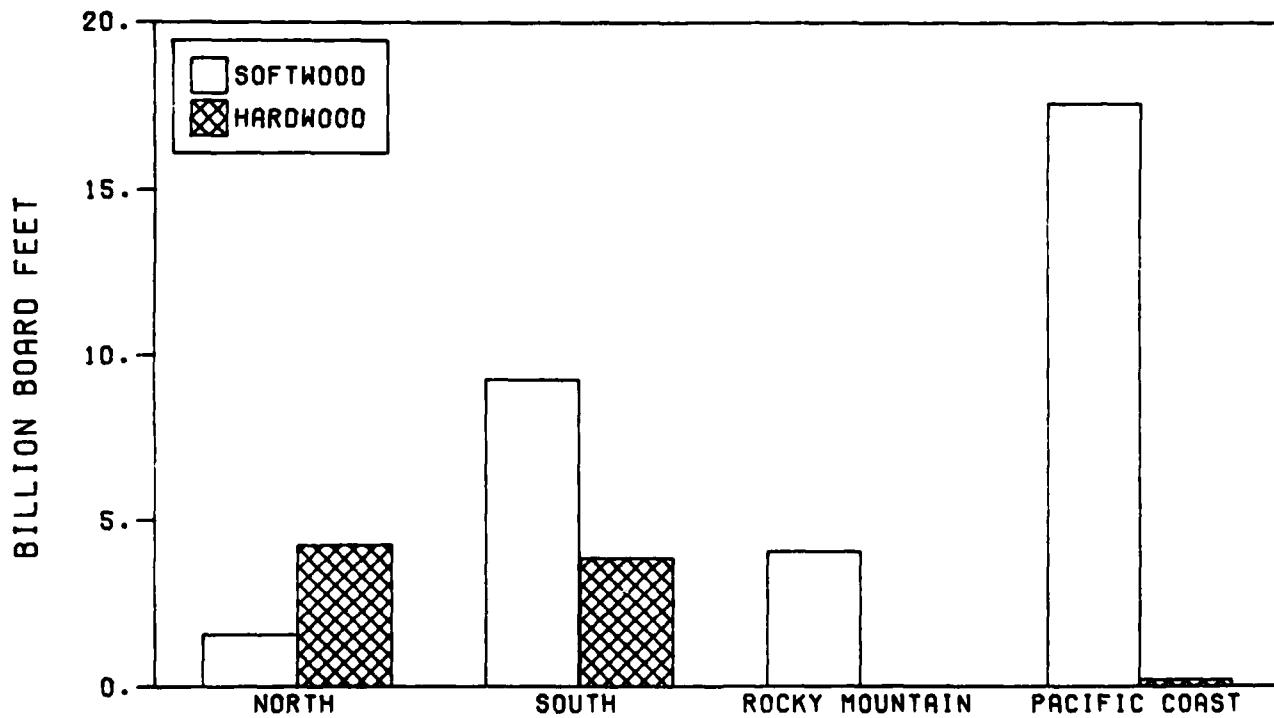


Figure 2.--Sawlog production in the United States by section and species group, 1976. (ML84 5002)

### Sawlogs (con.)

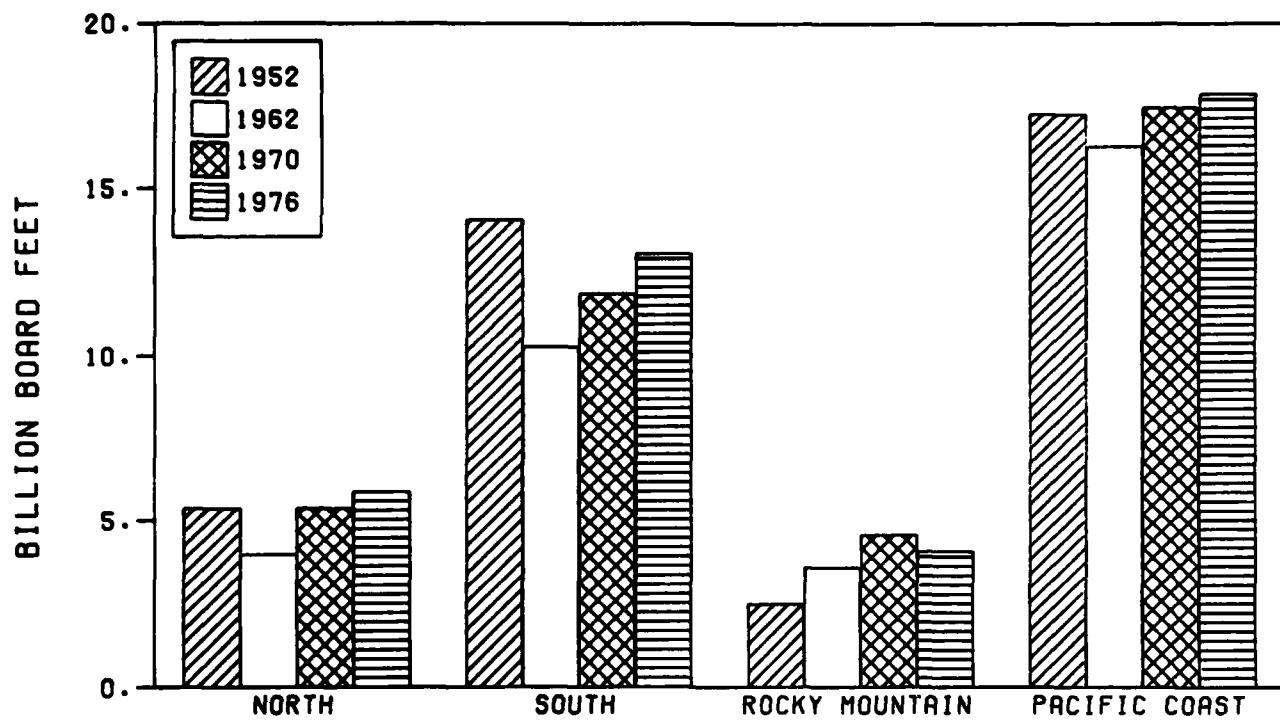


Figure 3.-Sawlog production in the United States by section and year, 1952, 1962, 1970, and 1976. (ML84 5003)

### Veneer Logs

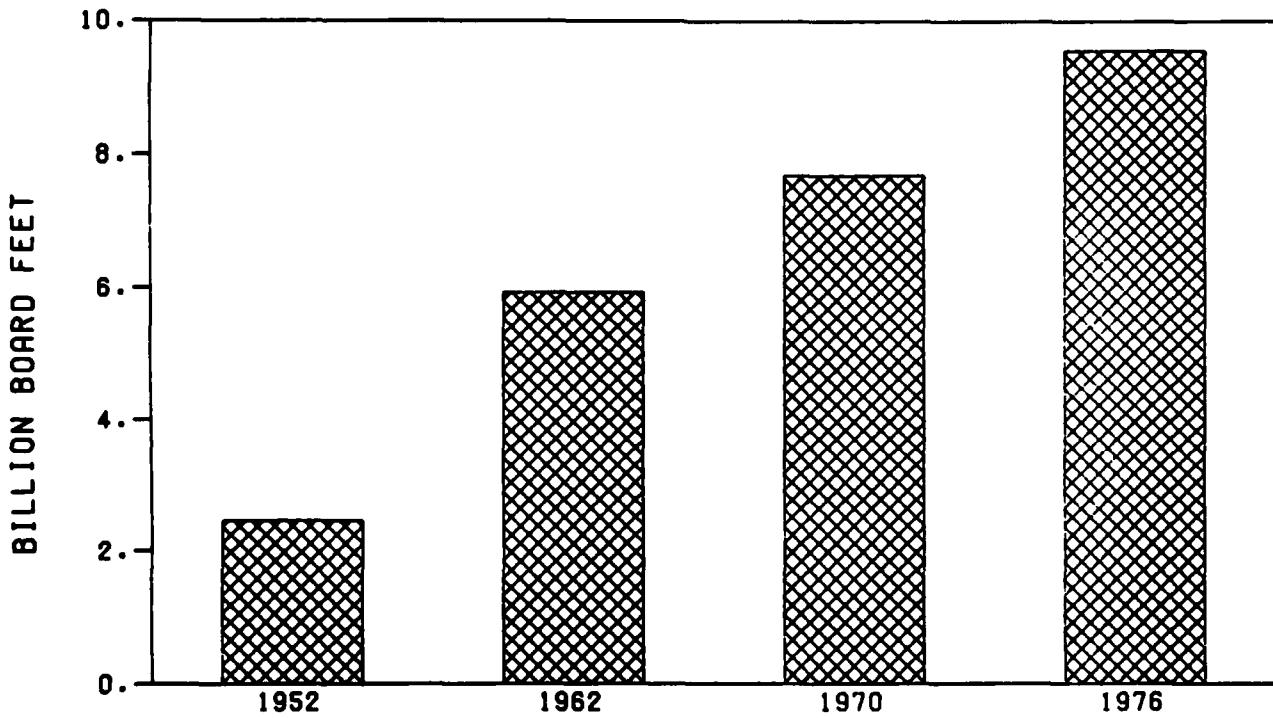


Figure 4.-Veneer log production in the United States, 1952, 1962, 1970, and 1976. (ML84 5004)

### Veneer Logs (con.)

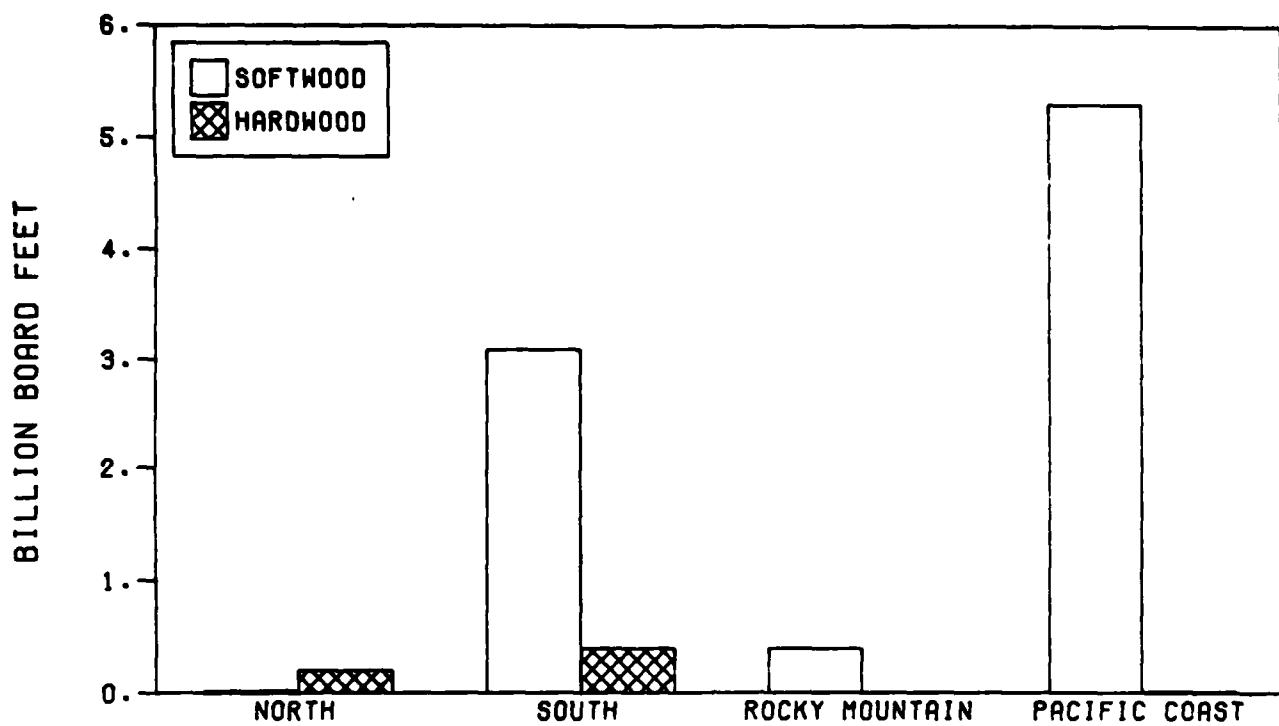


Figure 5.--Veneer log production in the United States by section and species group, 1976.  
(ML84 5005)

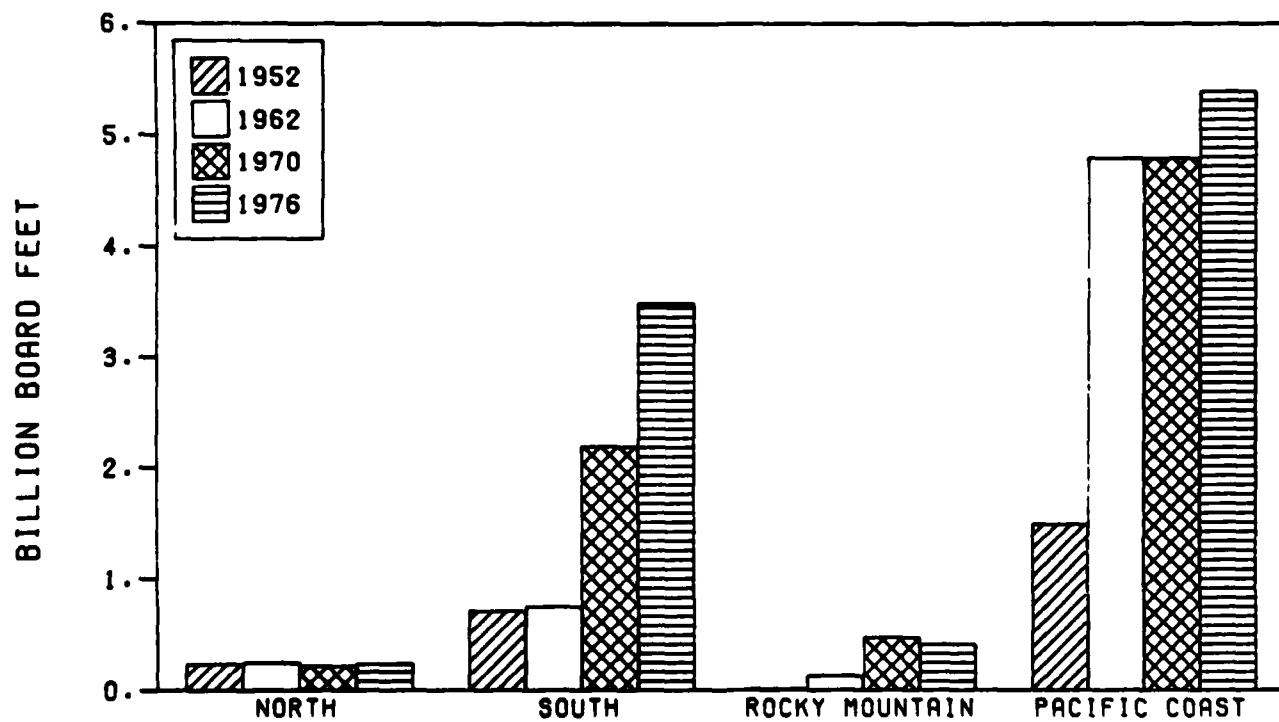


Figure 6.--Veneer log production in the United States by section and year, 1952, 1962, 1970, and 1976. (ML84 5006)

## Pulpwood

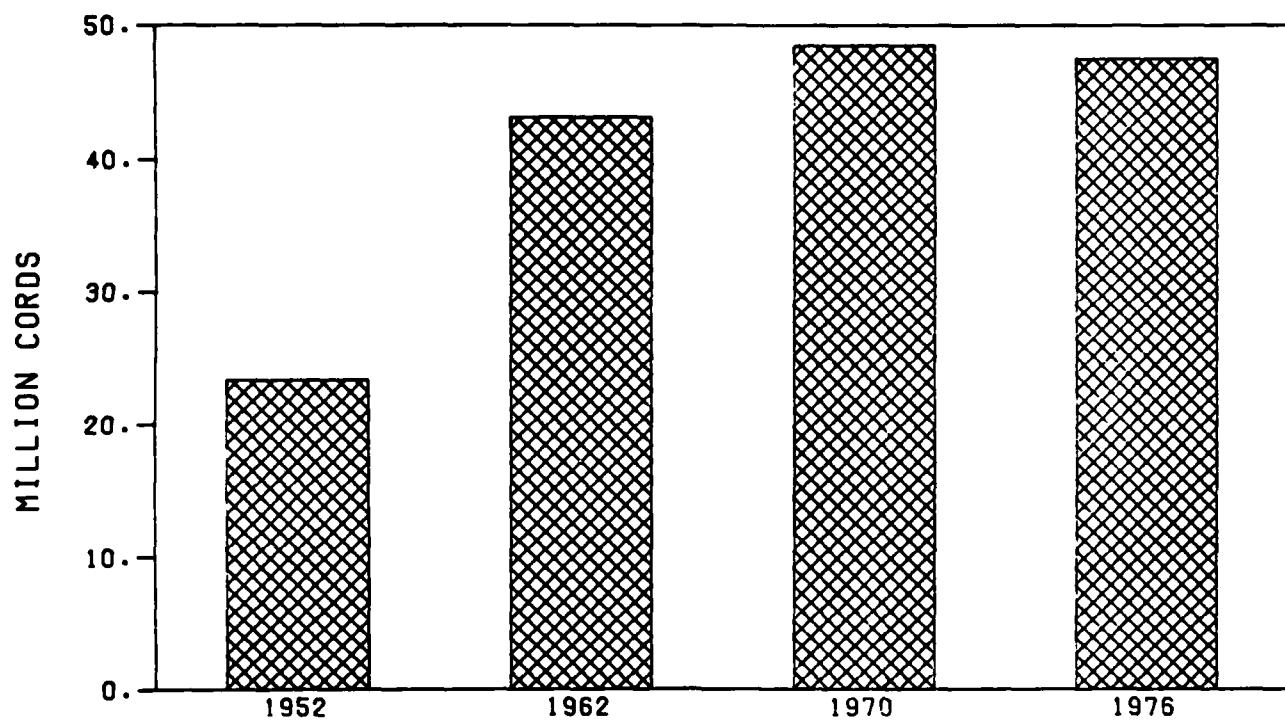


Figure 7.--Pulpwood production in the United States, 1952, 1962, 1970, and 1976.  
(ML84 5007)

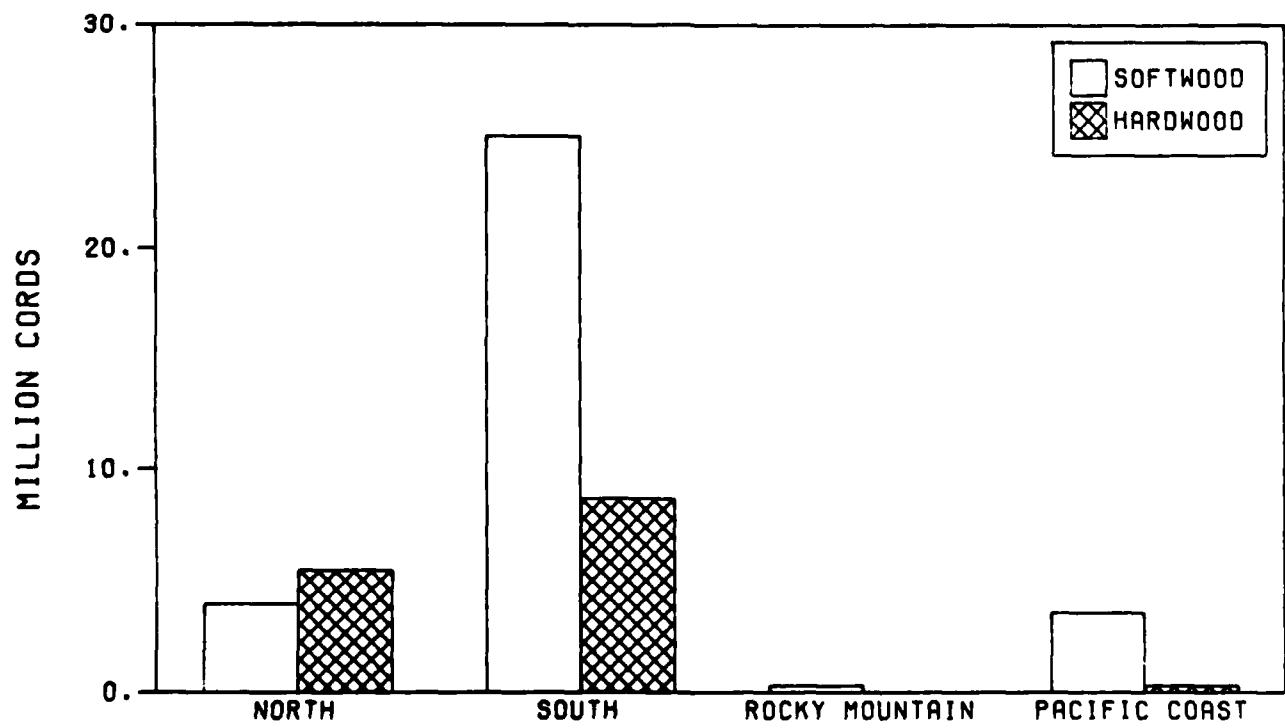


Figure 8.--Pulpwood production in the United States by section and species group, 1976.  
(ML84 5008)

### **Pulpwood (con.)**

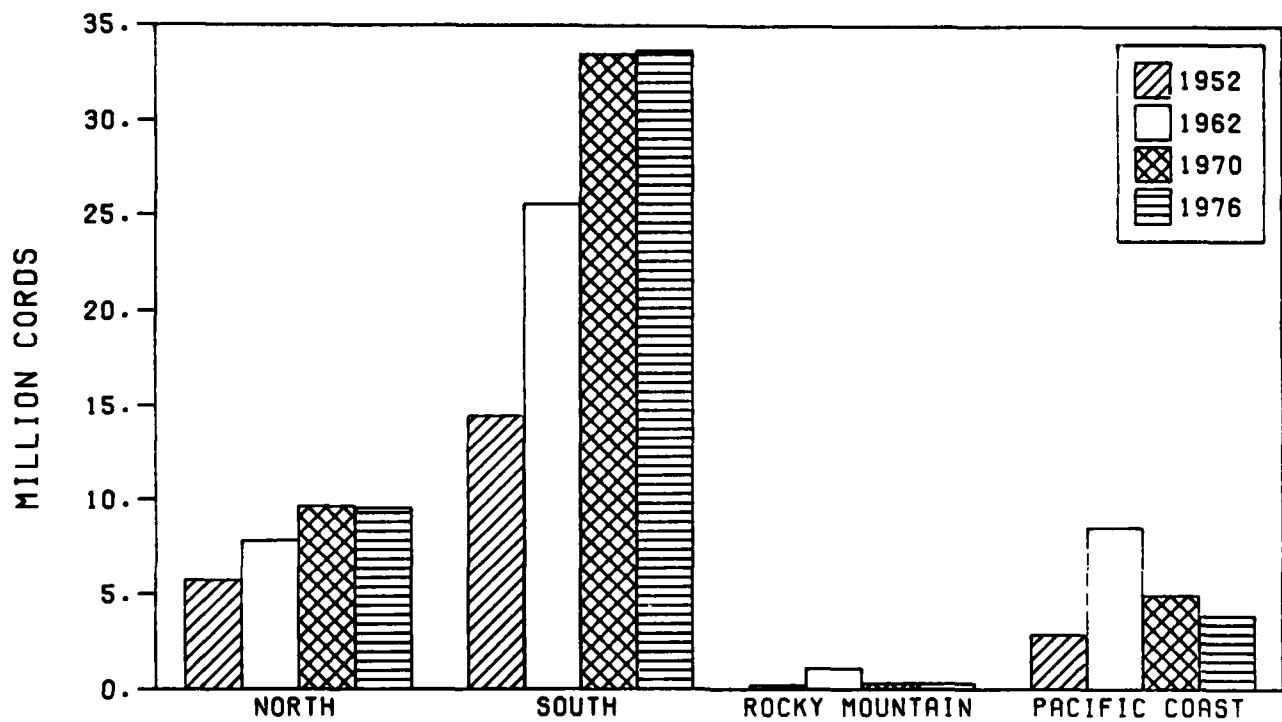


Figure 9.--Pulpwood production in the United States by section and year, 1952, 1962, 1970, and 1976. (ML84 5009)

### **Miscellaneous Industrial Products**

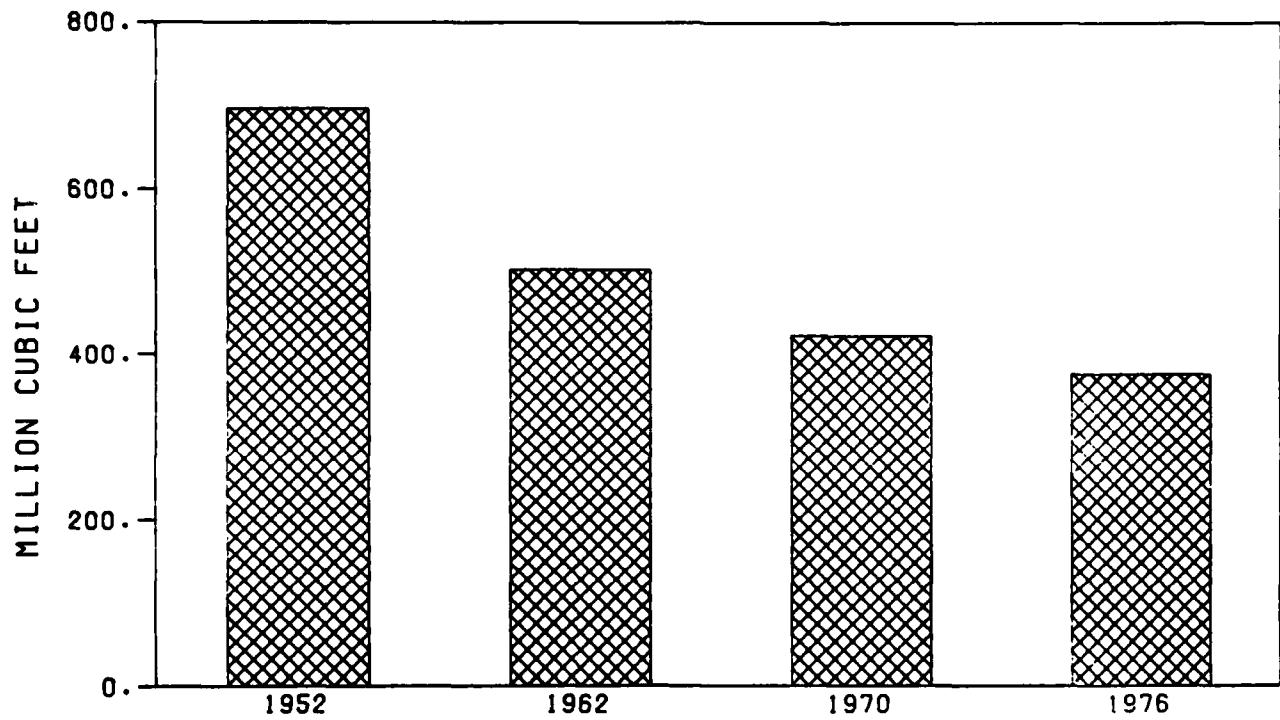


Figure 10.--Miscellaneous industrial products production in the United States, 1952, 1962, 1970, and 1976. (ML84 5010)

**Miscellaneous Industrial Products (con.)**

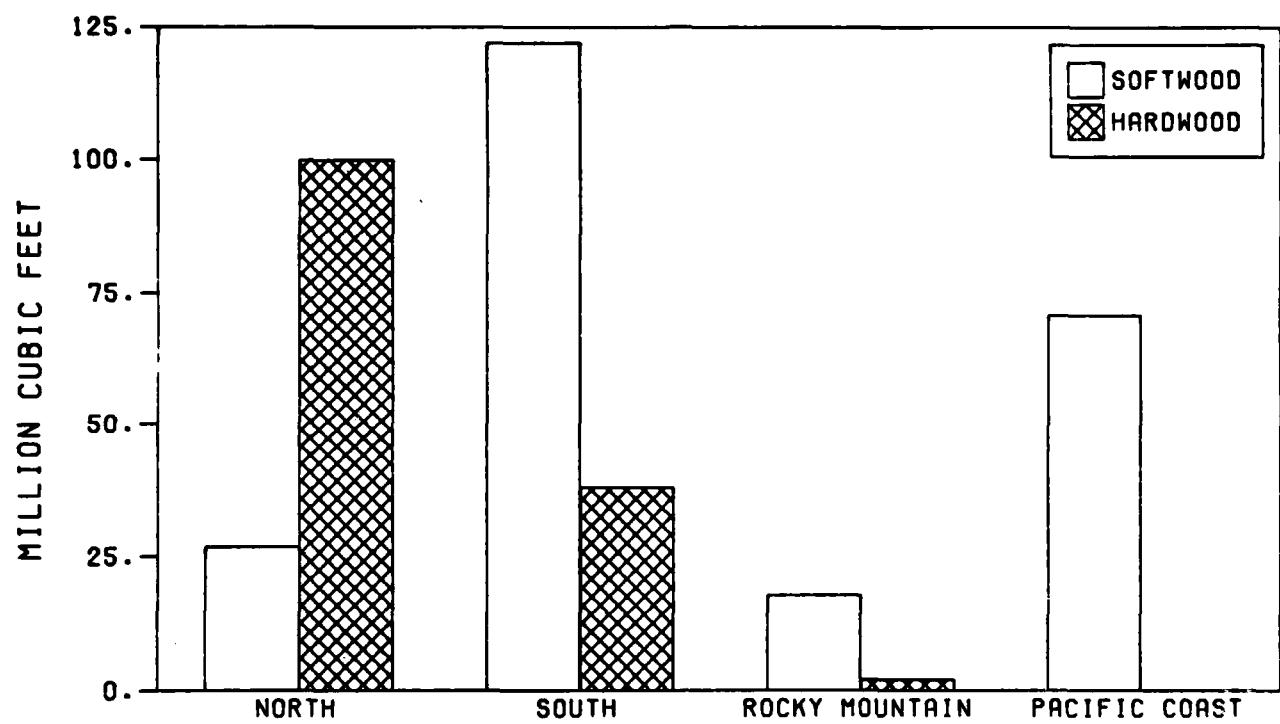


Figure 11.--Miscellaneous industrial products production in the United States by section and species group, 1976. (ML84 5011)

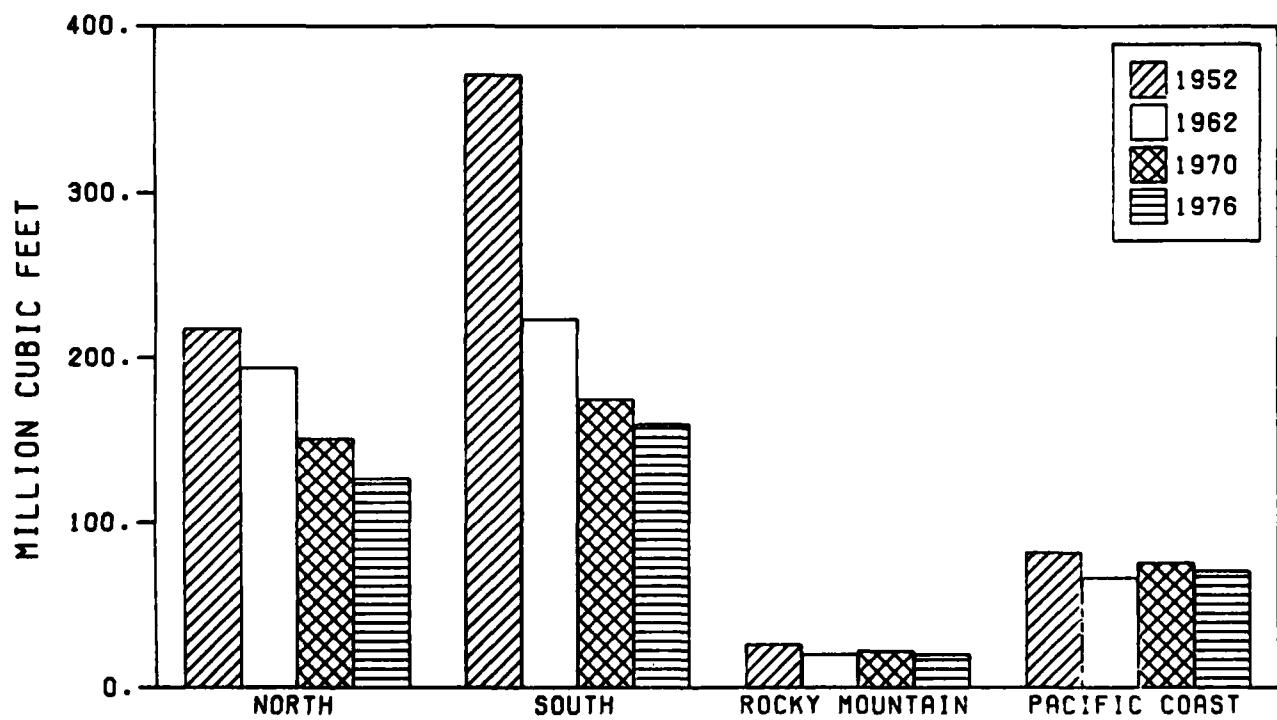


Figure 12.--Miscellaneous industrial products production in the United States by section and year, 1952, 1962, 1970, and 1976. (ML84 5012)

### Miscellaneous Timber Products

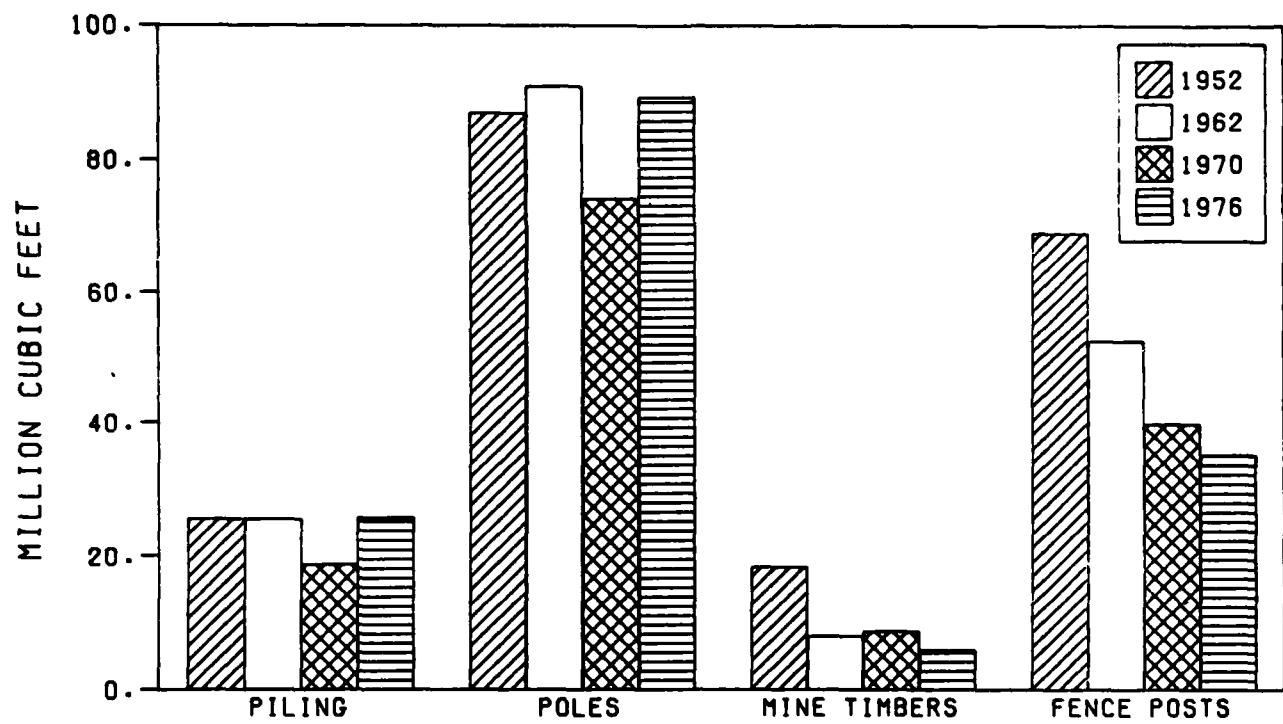


Figure 13.—Miscellaneous softwood timber products production in the United States by type of product, 1952, 1962, 1970, and 1976. (ML84 5013)

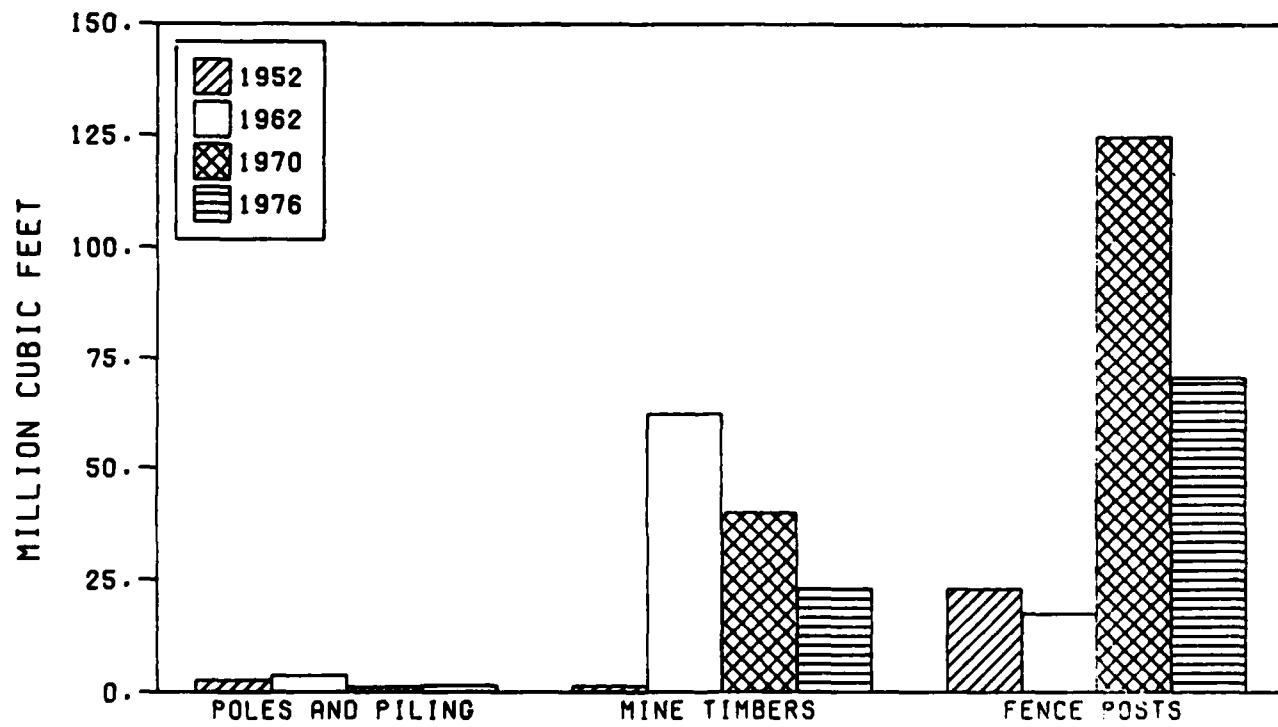


Figure 14.—Miscellaneous hardwood timber products production in the United States by type of product, 1952, 1962, 1970, and 1976. (ML84 5014)

### Fuelwood

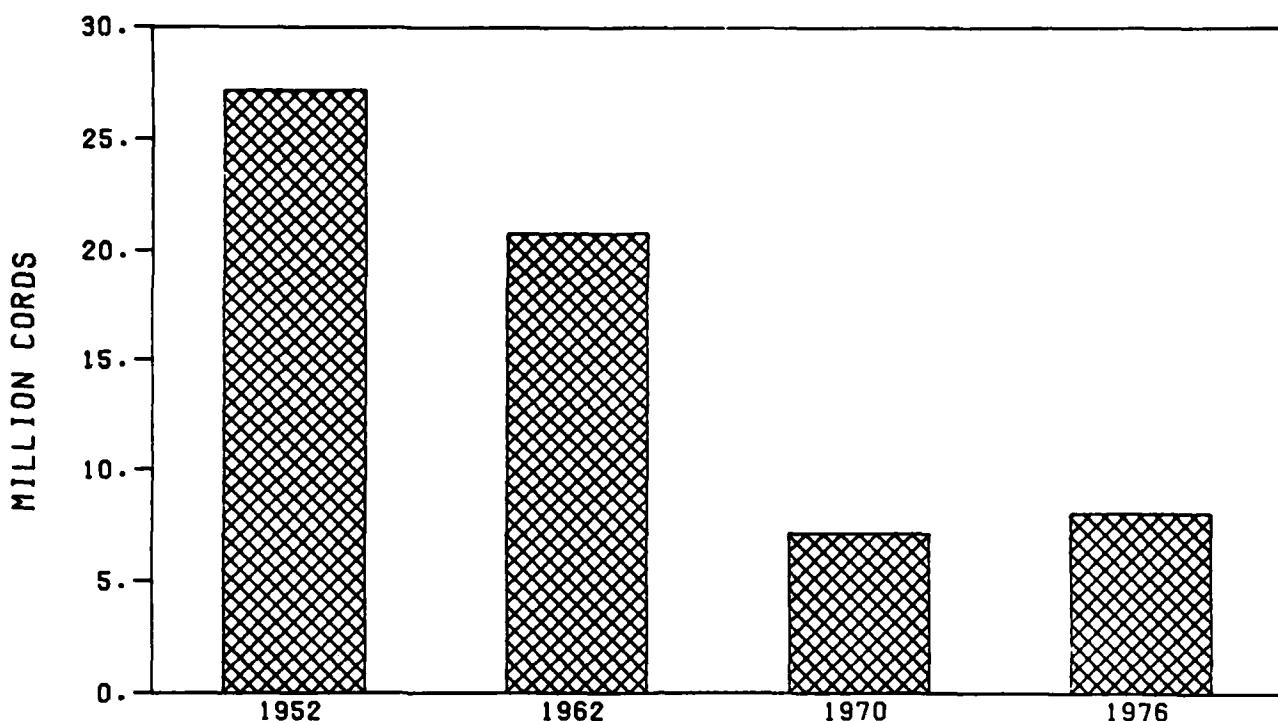


Figure 15.—Fuelwood production in the United States, 1952, 1962, 1970, and 1976.  
(ML84 5015)

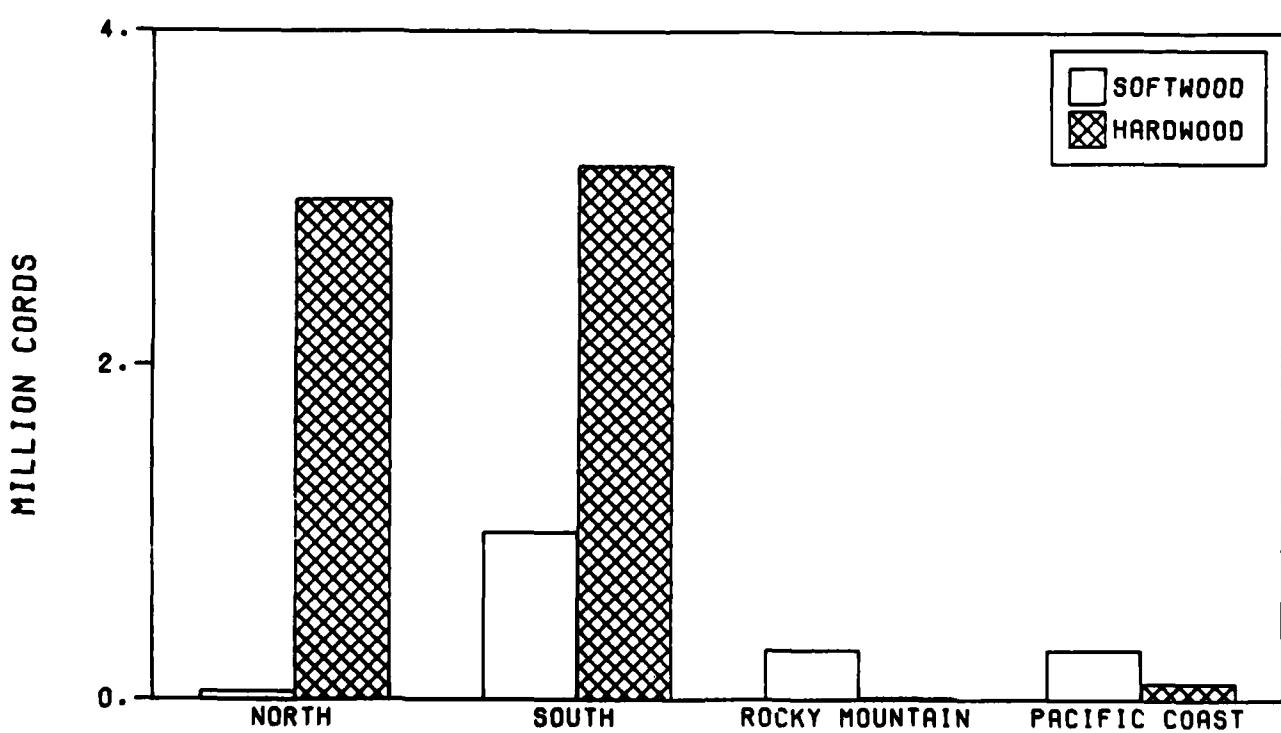


Figure 16.—Fuelwood production in the United States by section and species group, 1976.  
(ML84 5016)

### Fuelwood (con.)

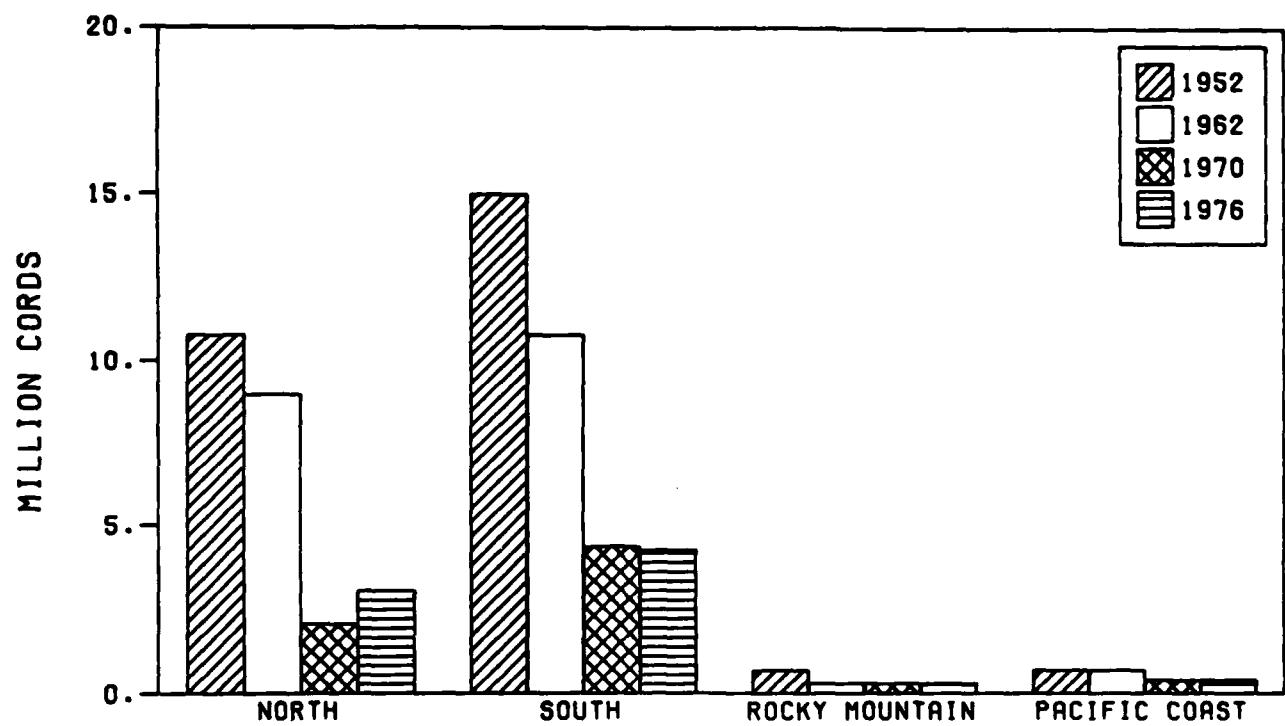


Figure 17.--Fuelwood production in the United States by section and year, 1952, 1962, 1970, and 1976. (ML84 5017)

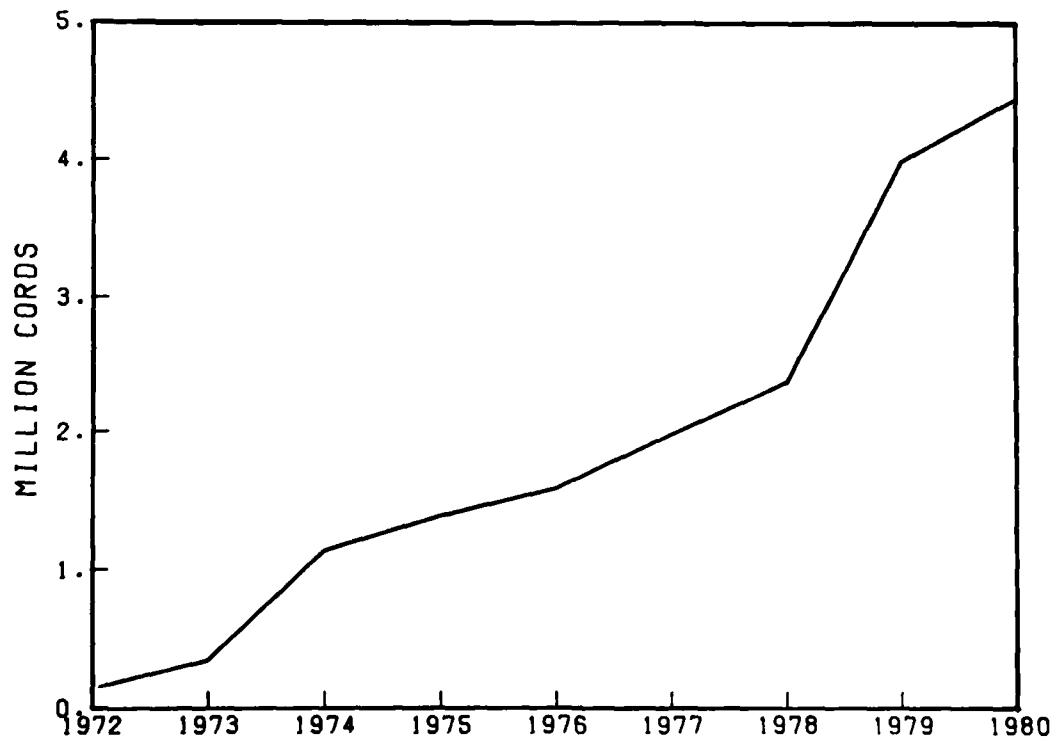


Figure 18.--Estimated fuelwood removals from National Forest System lands, 1972-1980. (ML84 5018)

### U.S. Timber Commodities

#### Lumber

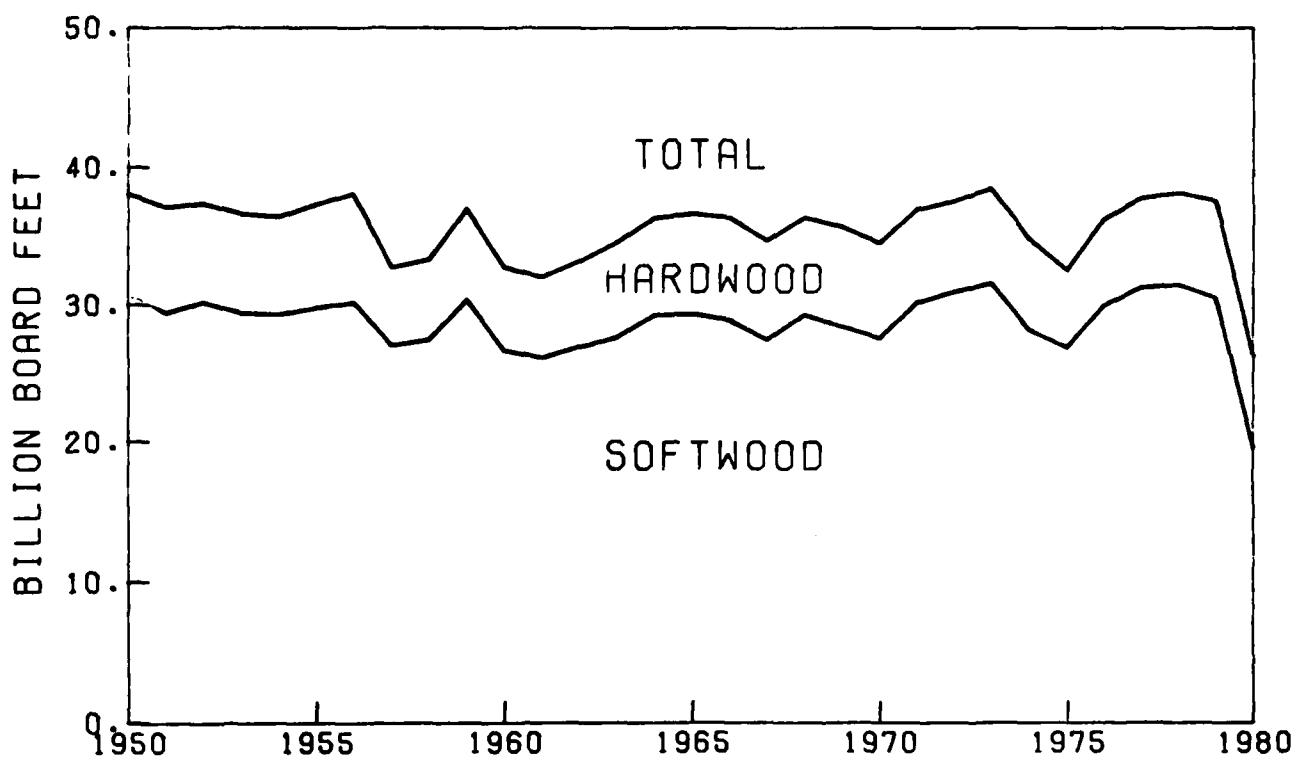


Figure 19.—Cumulative lumber production in the United States by species group, 1950-1980.  
(ML84 5019)

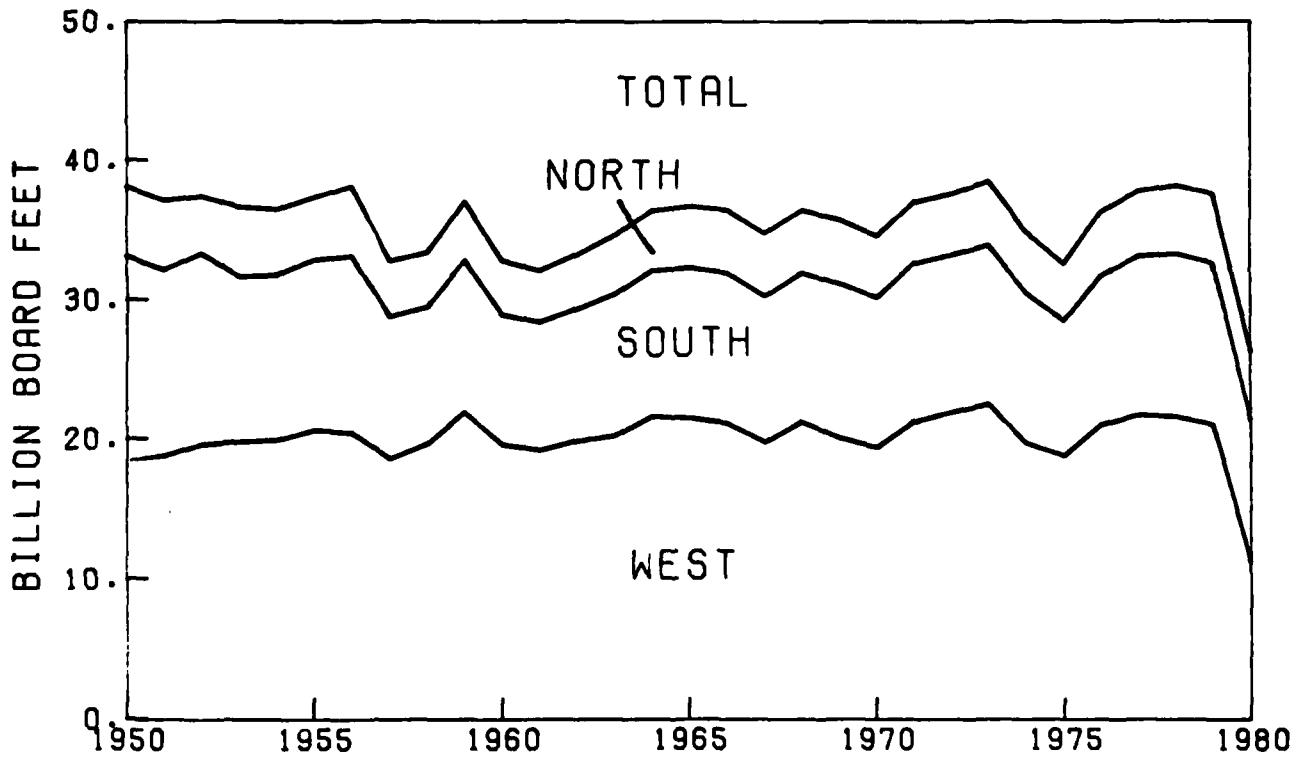


Figure 20.—Cumulative lumber production in the United States by region, 1950-1980.  
(ML84 5020)

**Lumber (con.)**

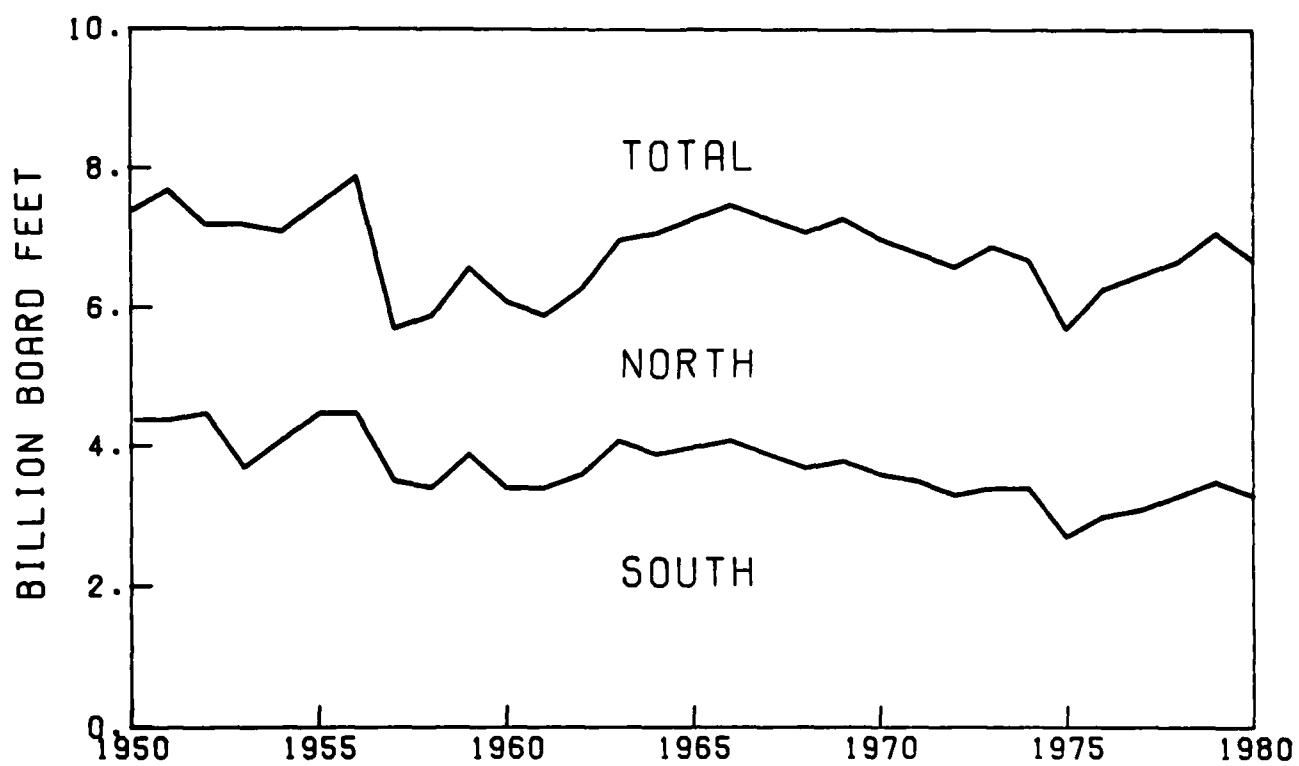


Figure 21.—Cumulative hardwood lumber production in the United States by region, 1950-1980. (ML84 5021)

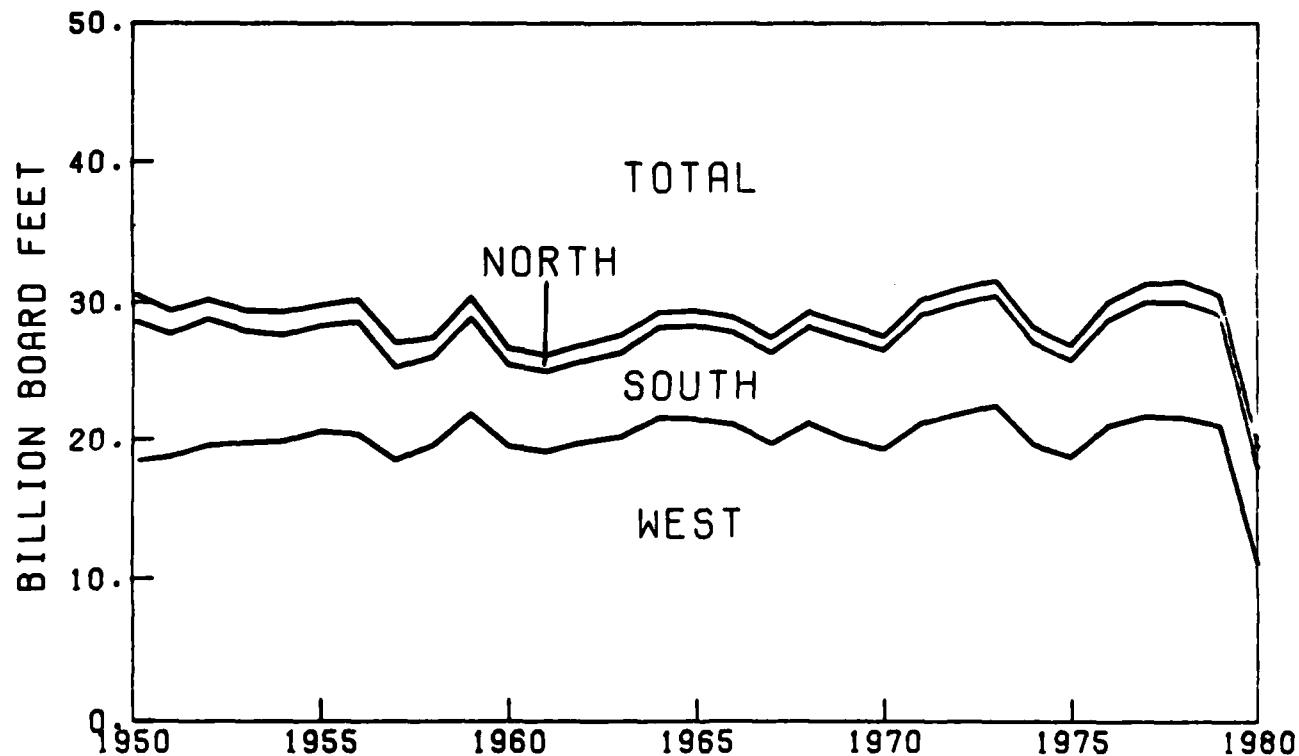


Figure 22.—Cumulative softwood lumber production in the United States by region, 1950-1980. (ML84 5022)

**Lumber (con.)**

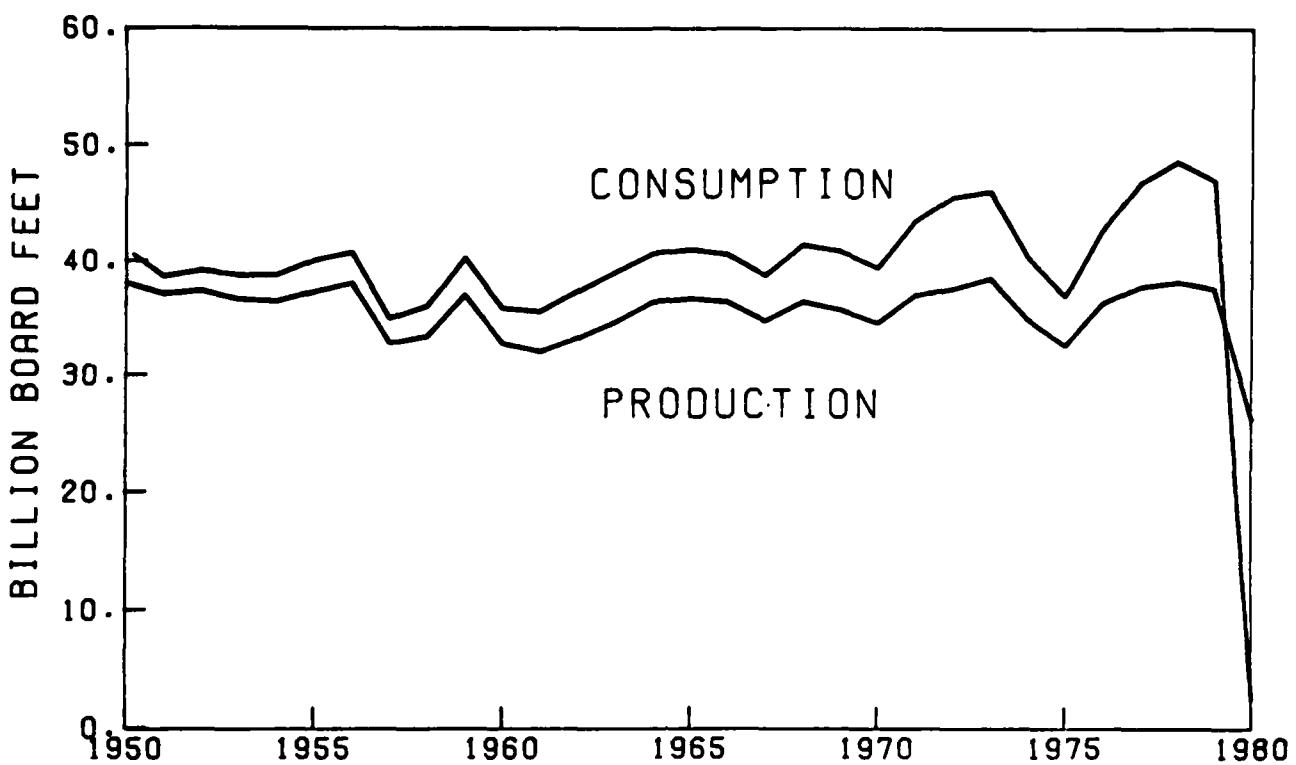


Figure 23.--Lumber consumption and production in the United States, 1950-1980.  
(ML84 5023)

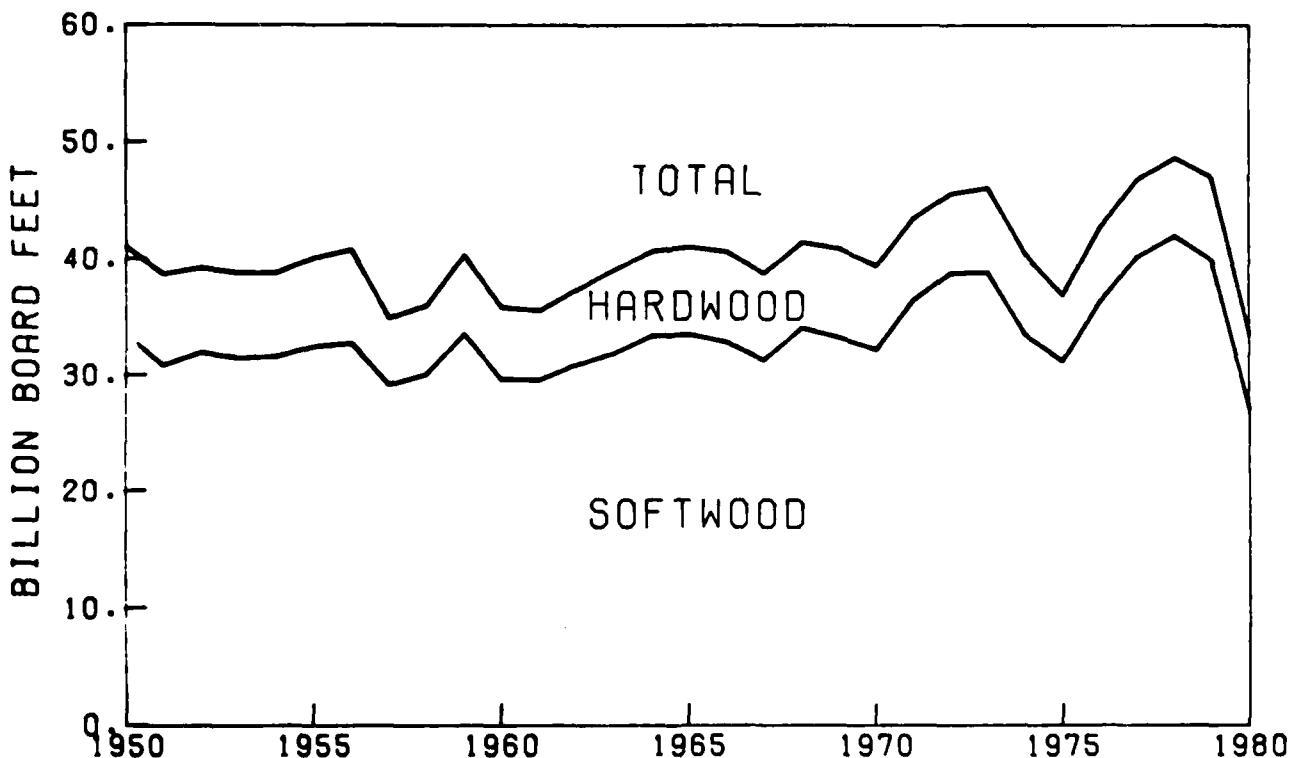


Figure 24.--Cumulative lumber consumption in the United States by species group,  
1950-1980. (ML84 5024)

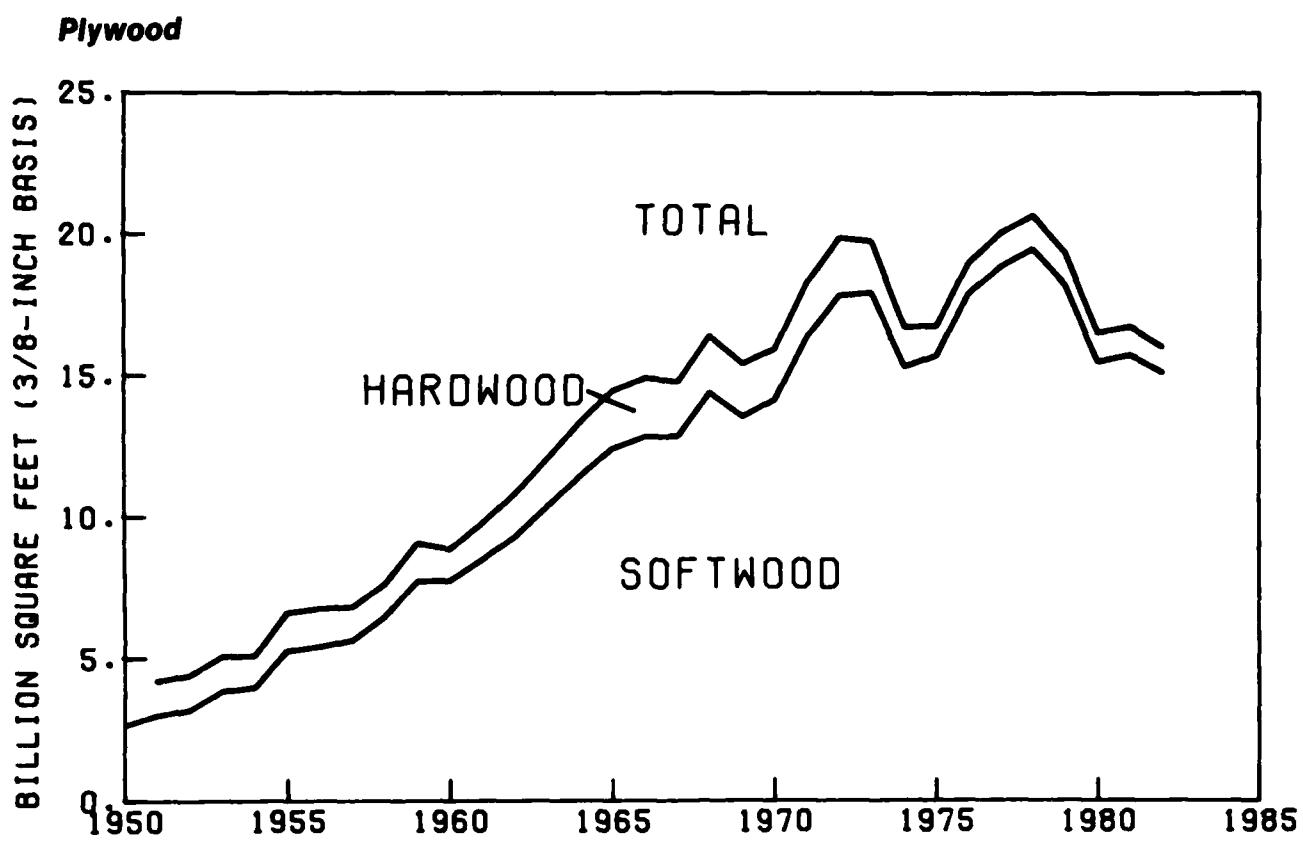


Figure 25.--Cumulative plywood production in the United States by species group, 1950-1982. (ML84 5025)

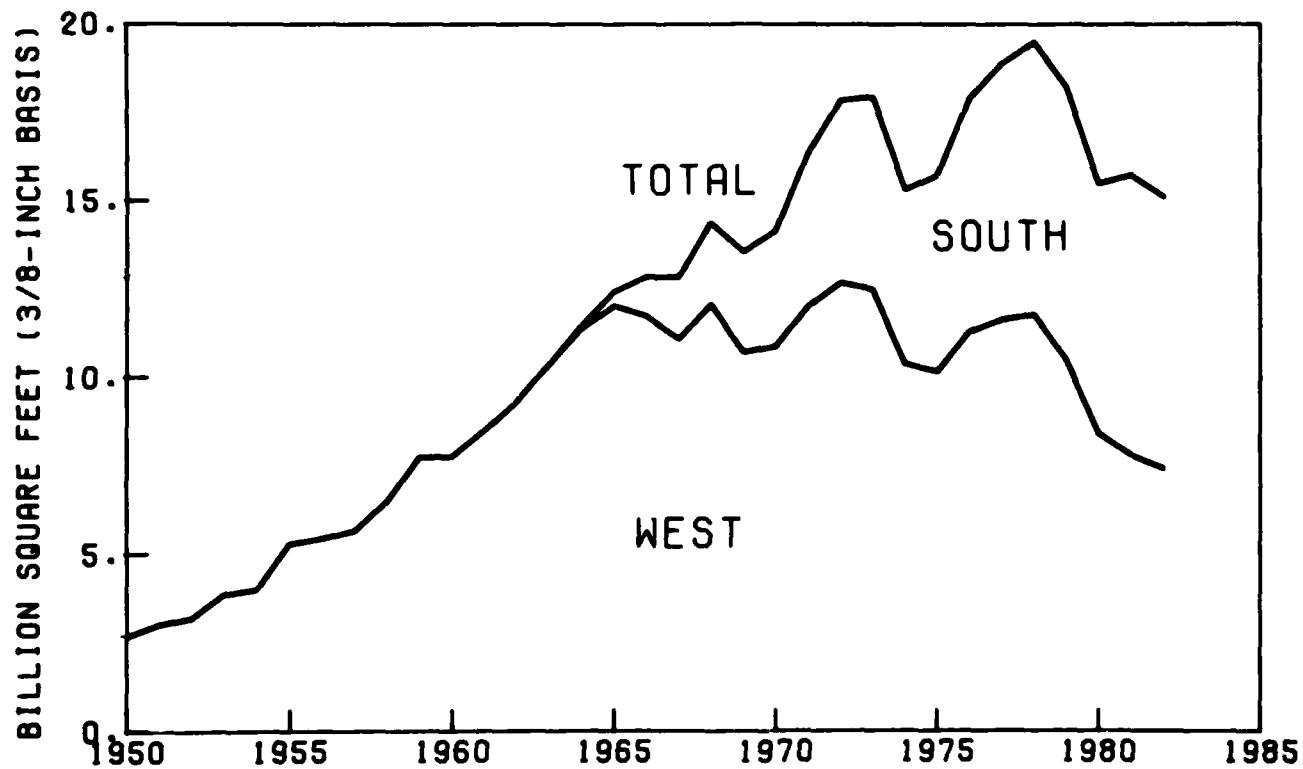


Figure 26.--Cumulative softwood plywood production in the United States by region, 1950-1982. (ML84 5026)

**Plywood (con.)**

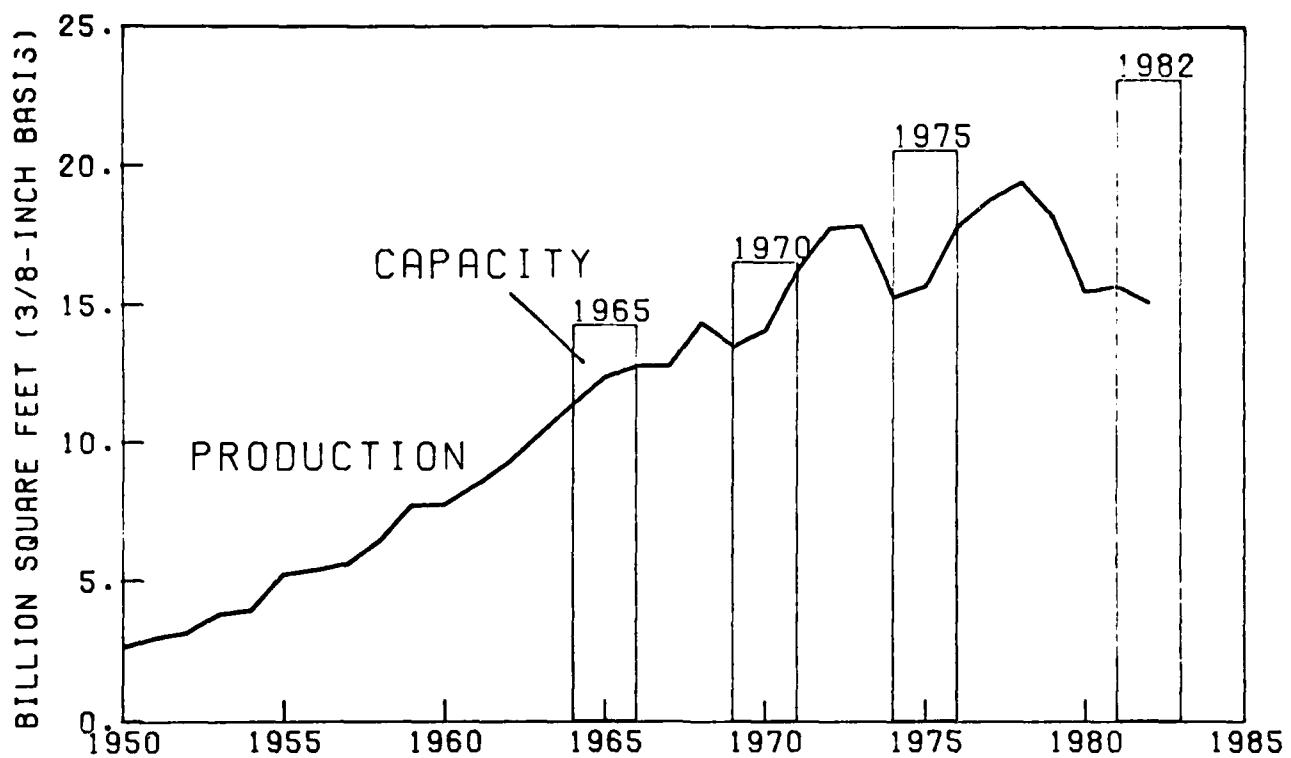


Figure 27.—Softwood plywood production and capacity in the United States, 1950-1982.  
(ML84 5027)

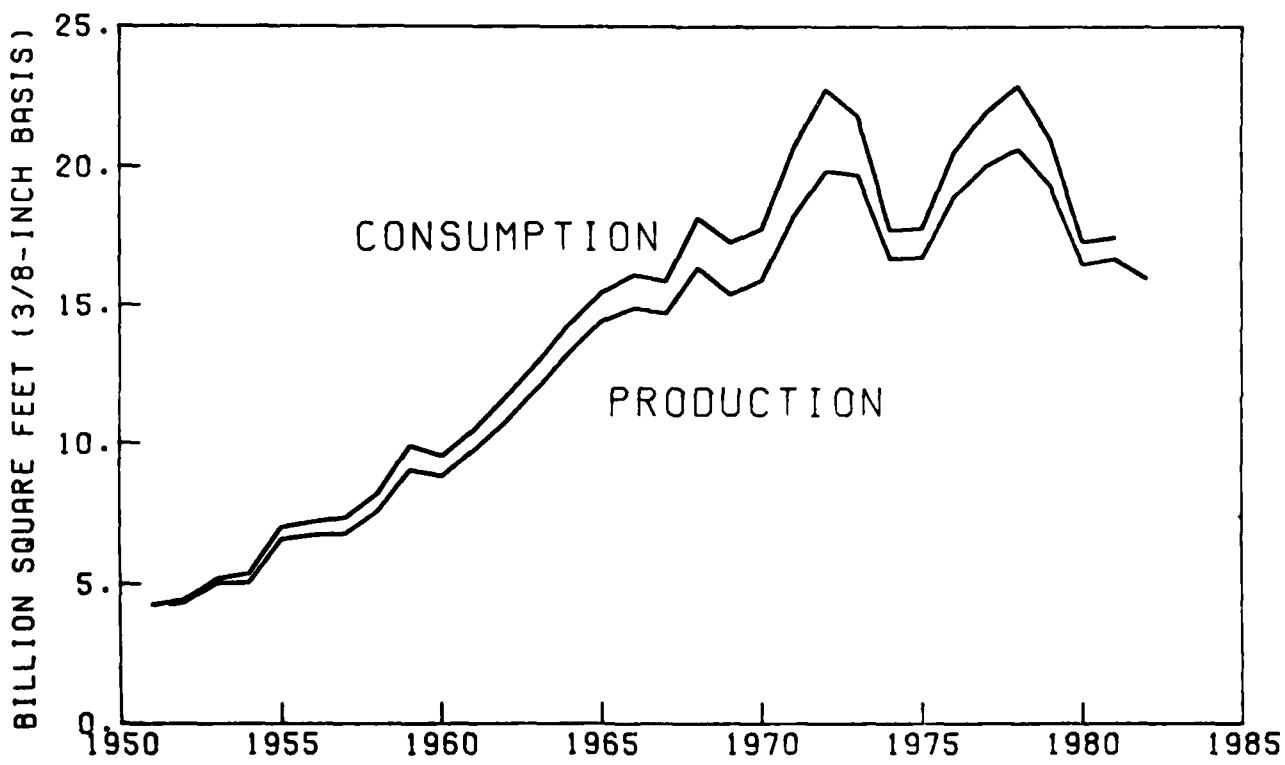


Figure 28.—Plywood consumption and production in the United States, 1950-1982.  
(ML84 5028)

**Plywood (con.)**

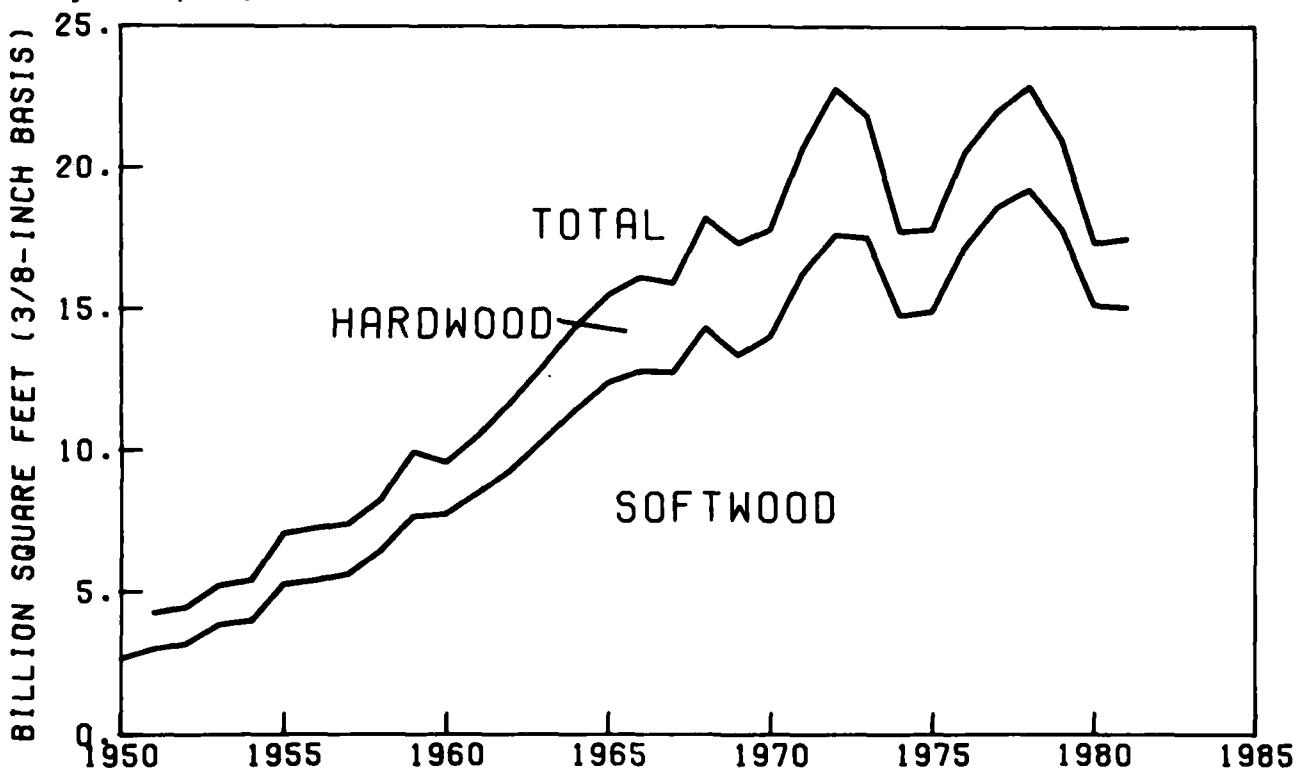


Figure 29.--Cumulative plywood consumption in the United States by species group, 1950-1981. (ML84 5029)

**Particleboard and Medium-Density Fiberboard**

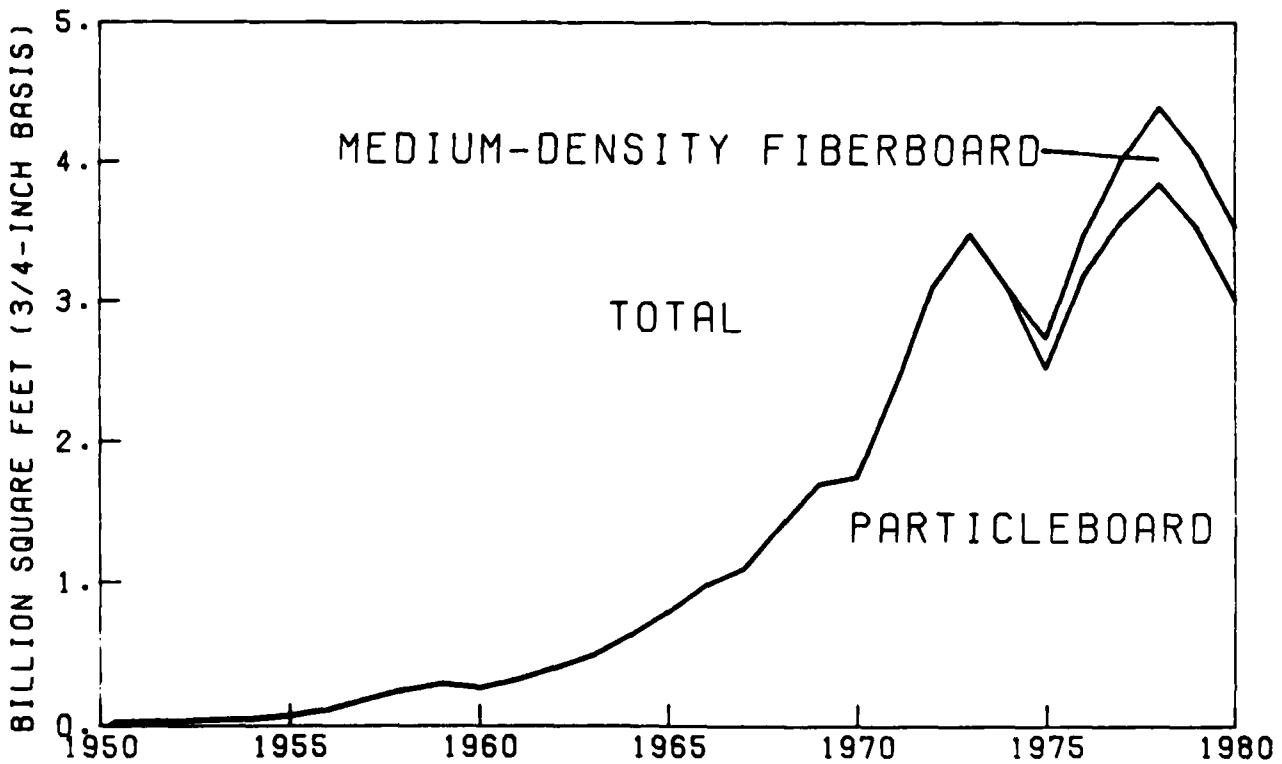


Figure 30.--Cumulative particleboard and medium-density fiberboard production in the United States, 1950-1980. (ML84 5030)

**Particleboard and Medium-Density Fiberboard (con.)**

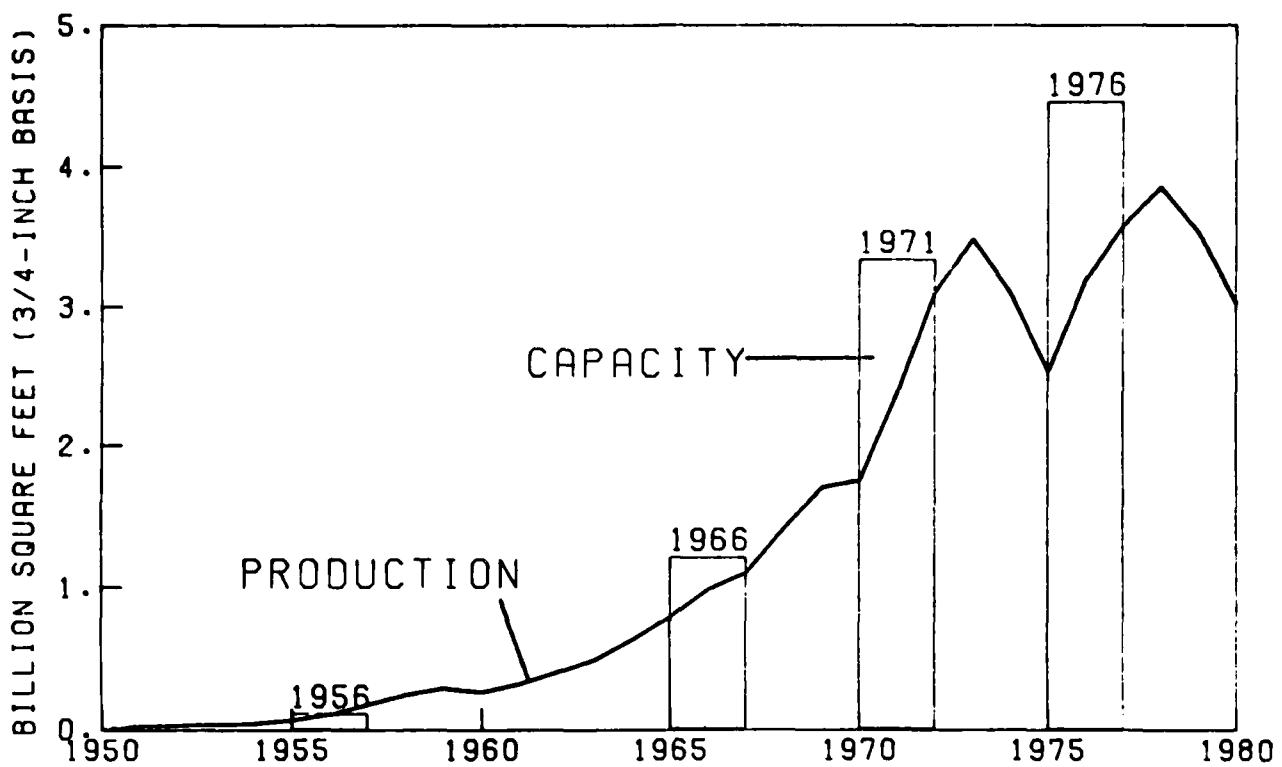


Figure 31.--Particleboard production and capacity in the United States, 1950-1980.  
(ML84 5031)

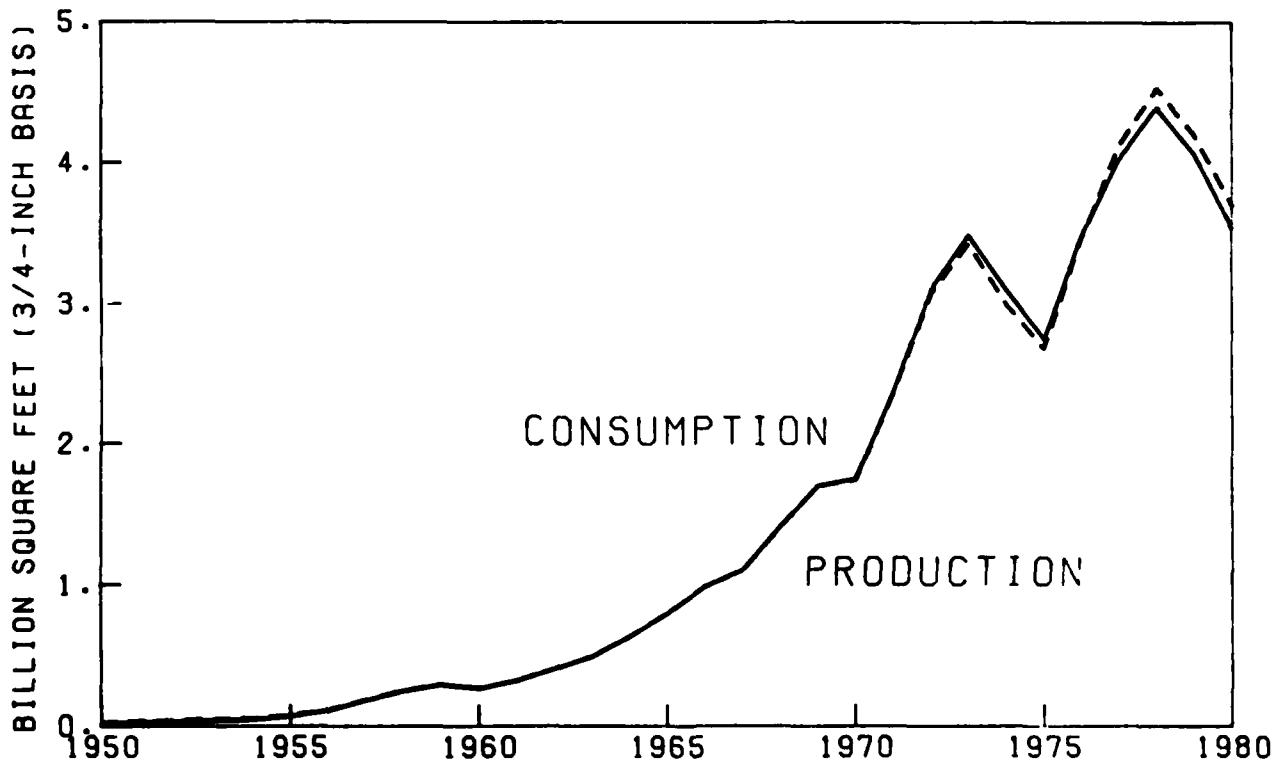


Figure 32.--Combined particleboard and medium-density fiberboard consumption and production in the United States, 1950-1980. (ML84 5032)

## Hardboard

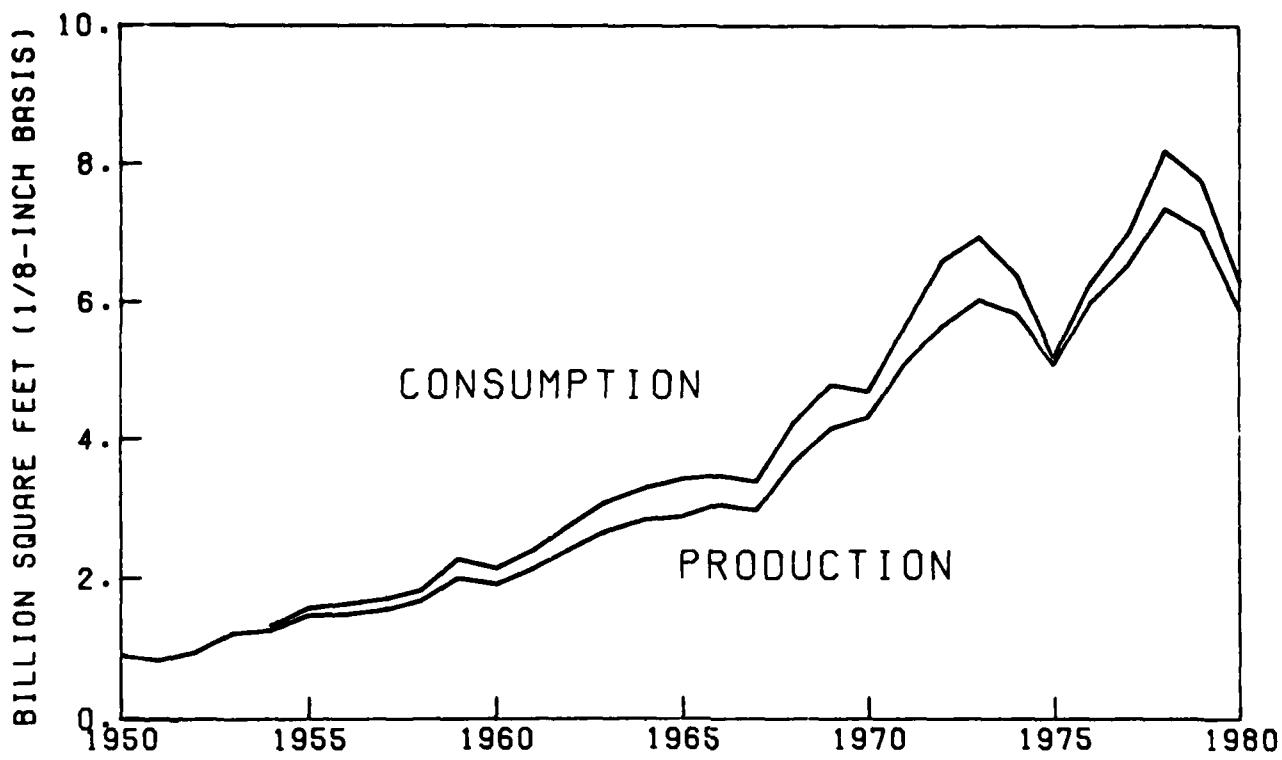


Figure 33.—Hardboard consumption and production in the United States, 1950-1980.  
(ML84 5033)

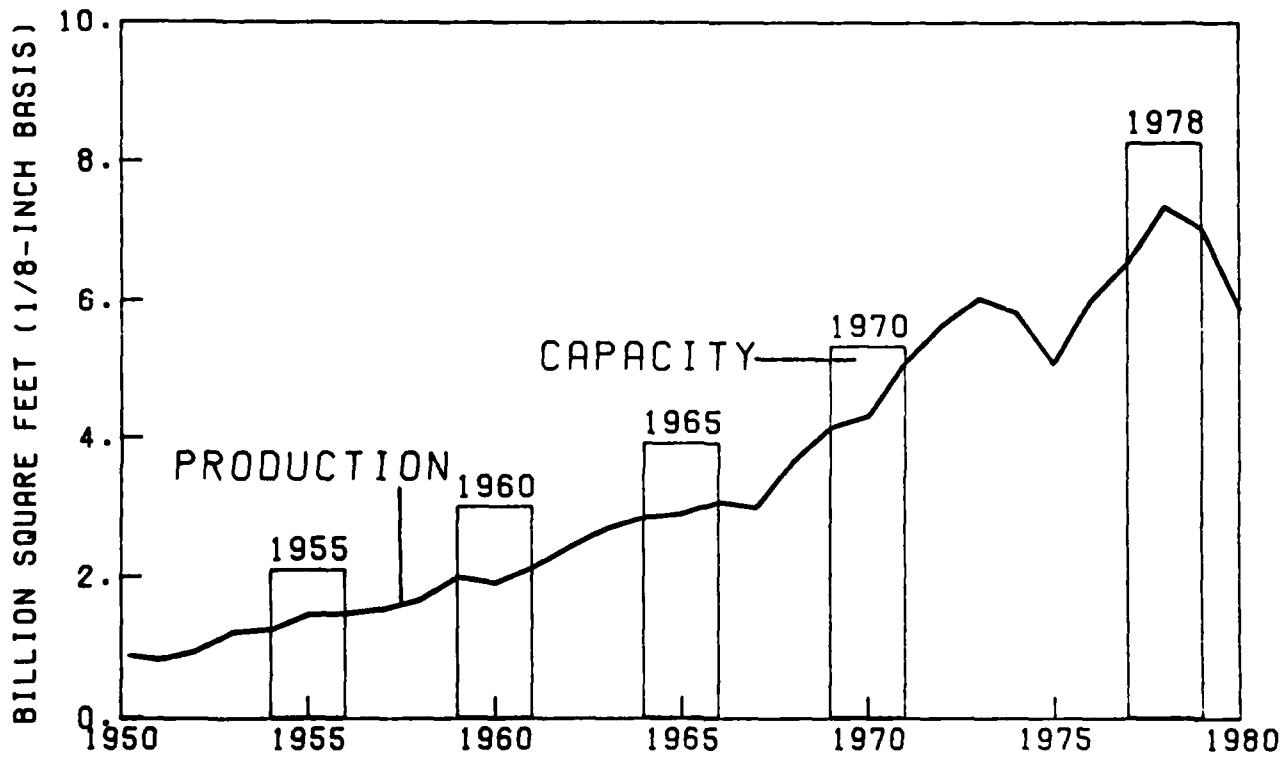


Figure 34.—Hardboard production and capacity in the United States, 1950-1980.  
(ML84 50034)

### Insulation Board

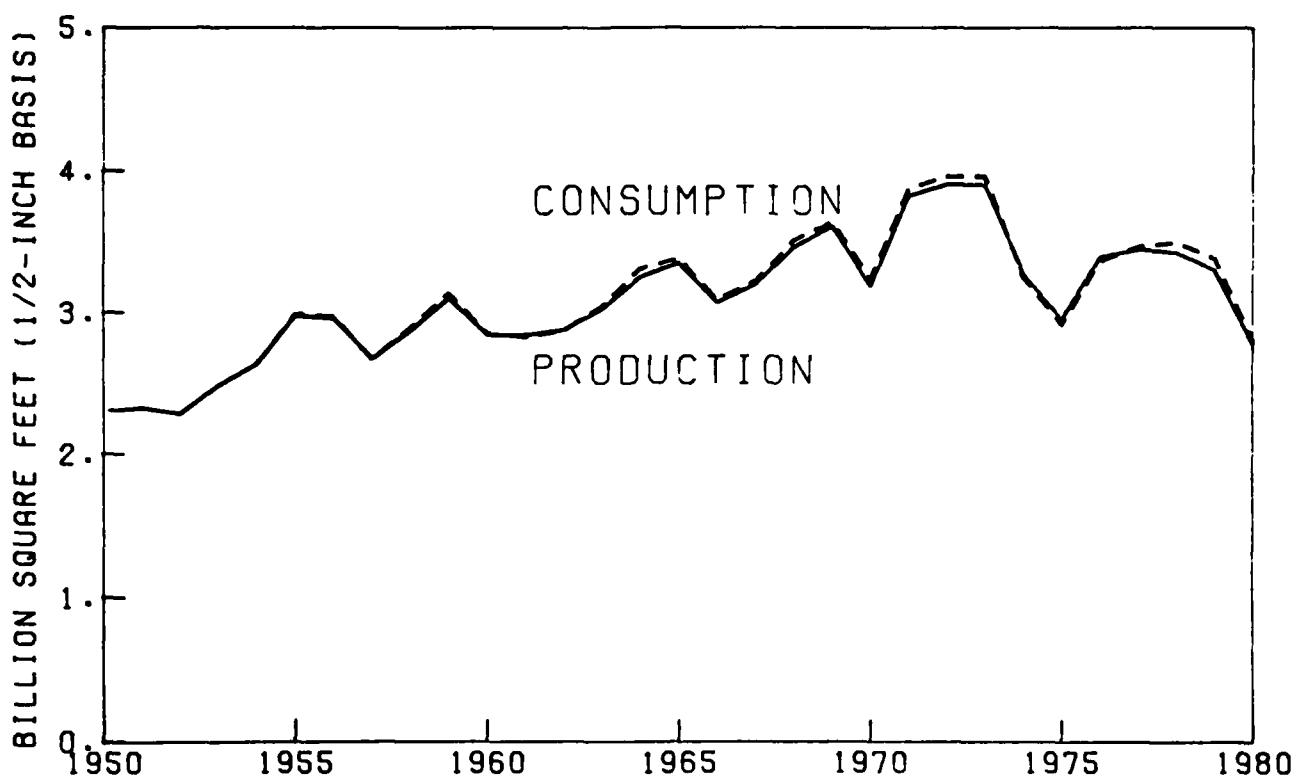


Figure 35.-Insulation board consumption and production in the United States, 1950-1980.  
(ML84 5035)

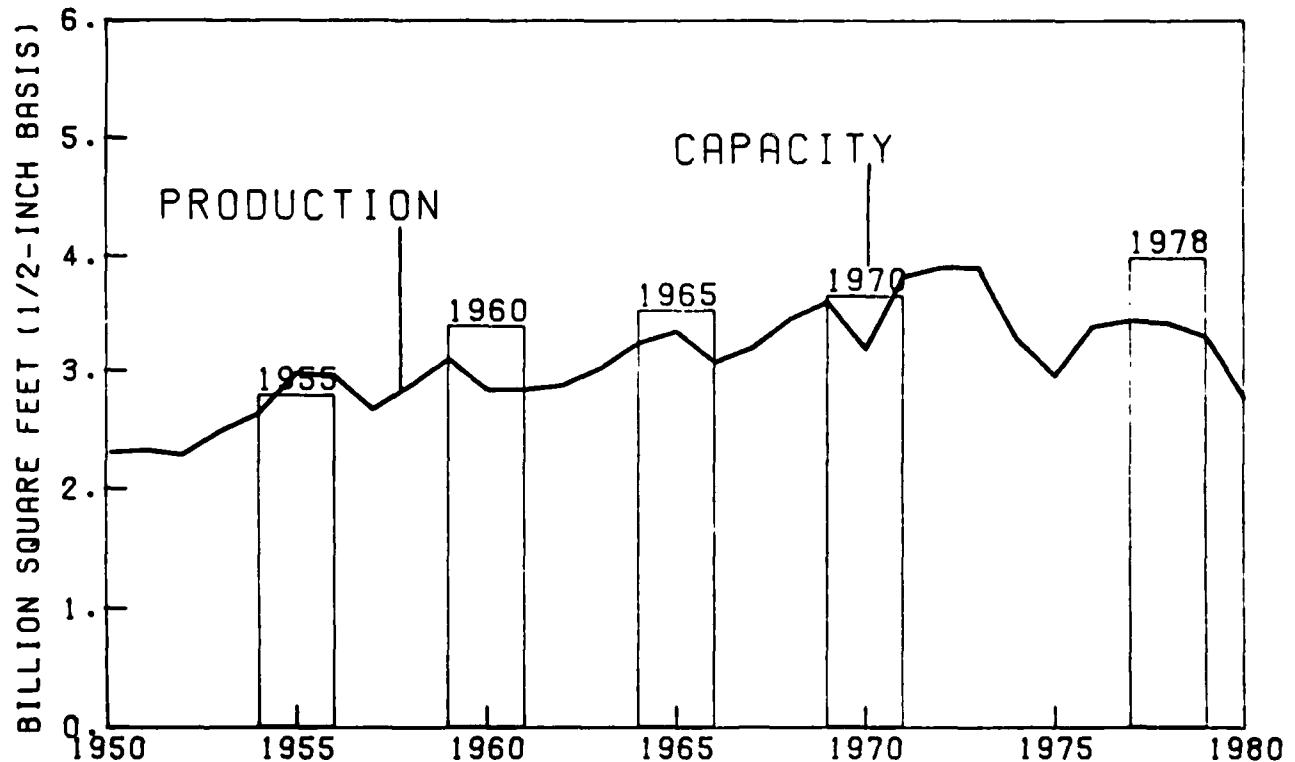


Figure 36.-Insulation board production and capacity in the United States, 1950-1980.  
(ML84 5036)

### Pulpwood

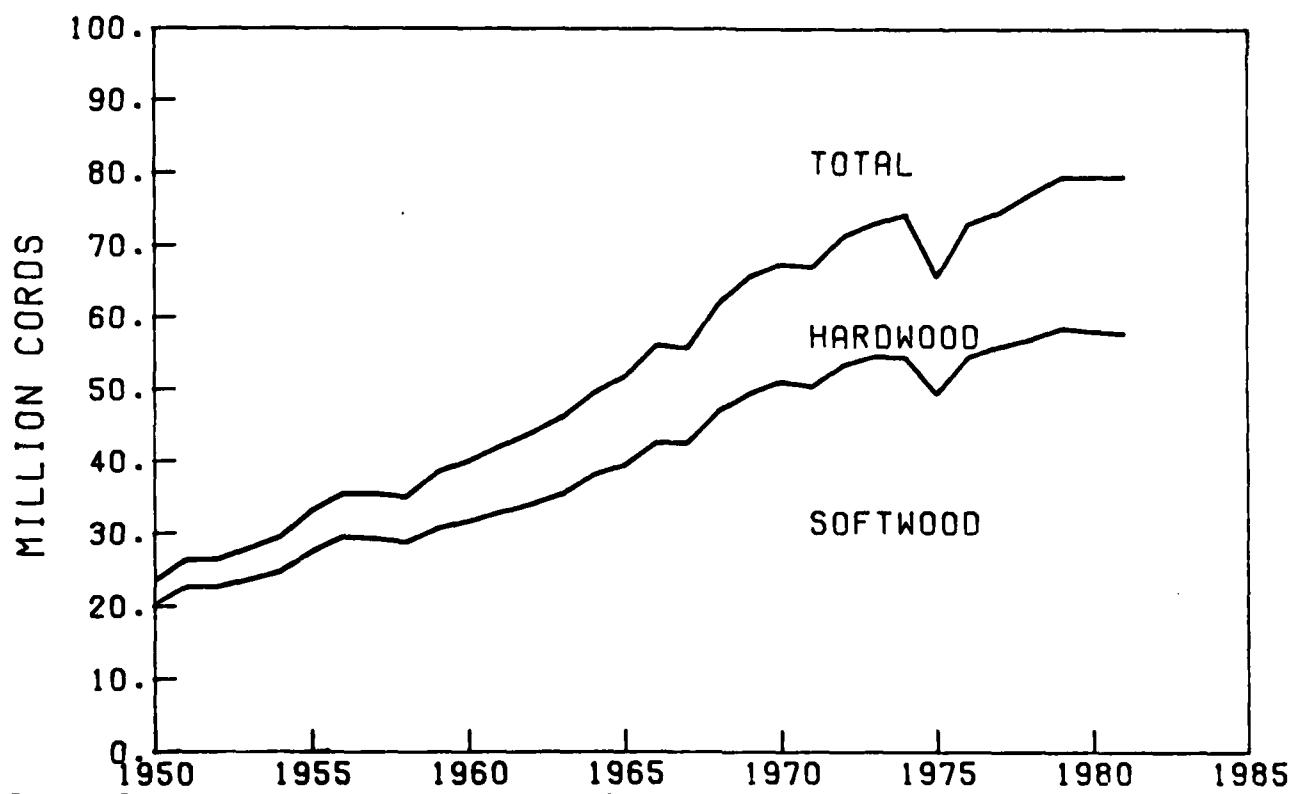


Figure 37.--Cumulative pulpwood consumption in the United States by species group, 1950-1981. (ML84 5037)

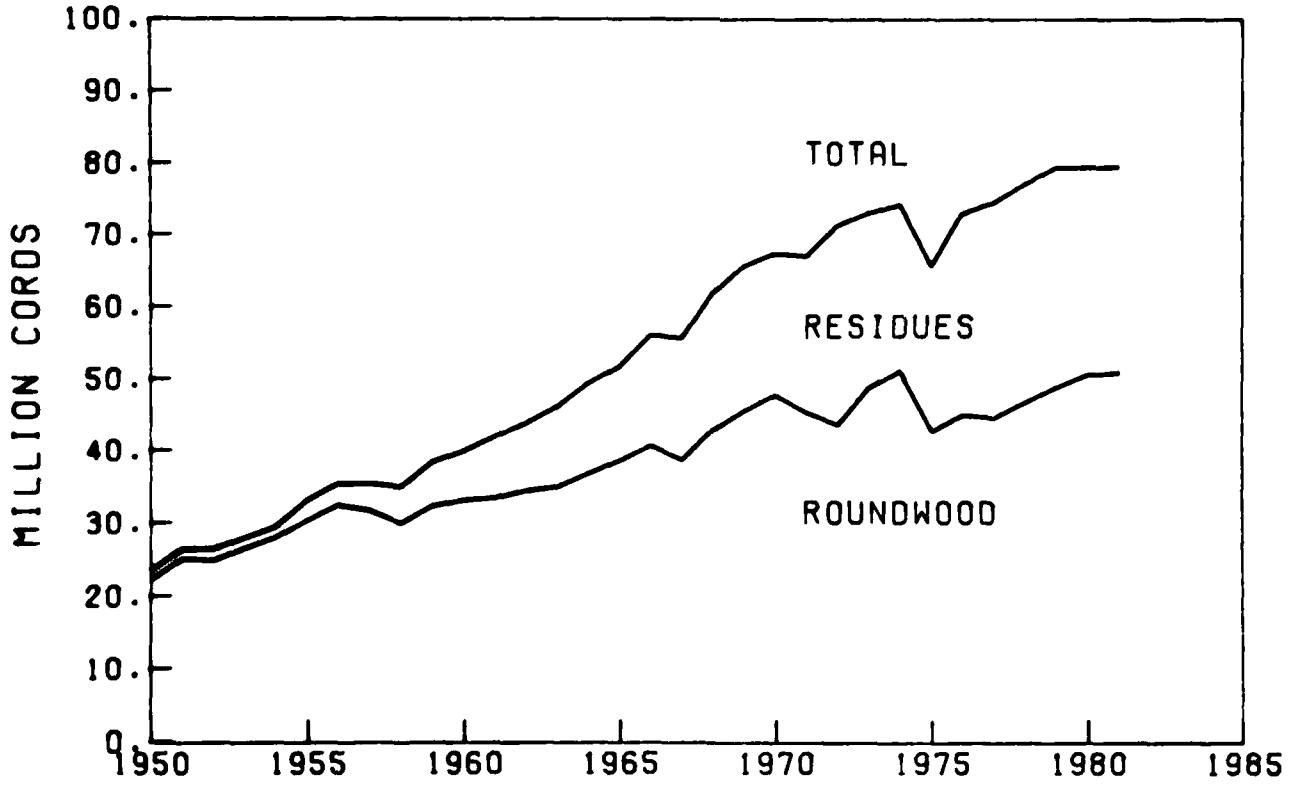


Figure 38.--Cumulative pulpwood consumption in the United States by roundwood and residues, 1950-1981. (ML84 5038)

## Woodpulp

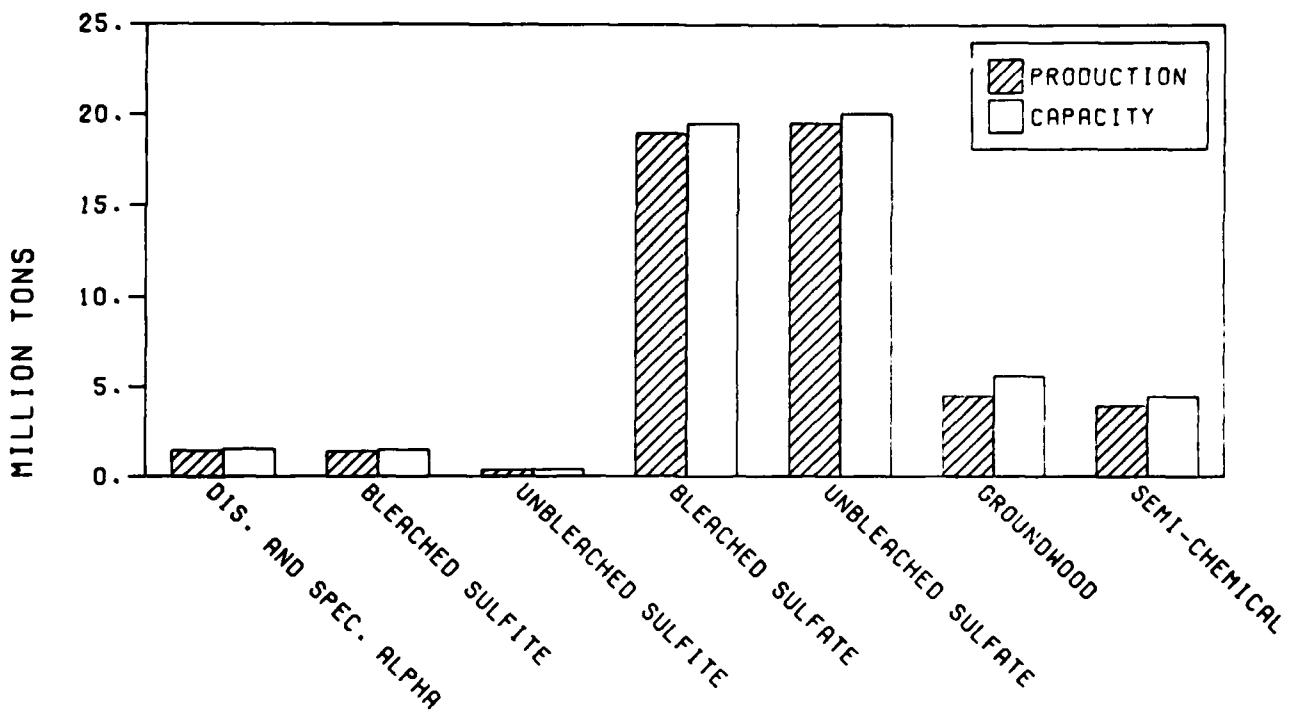


Figure 39.—Woodpulp production and capacity in the United States by grade, 1980.  
(ML84 5039)

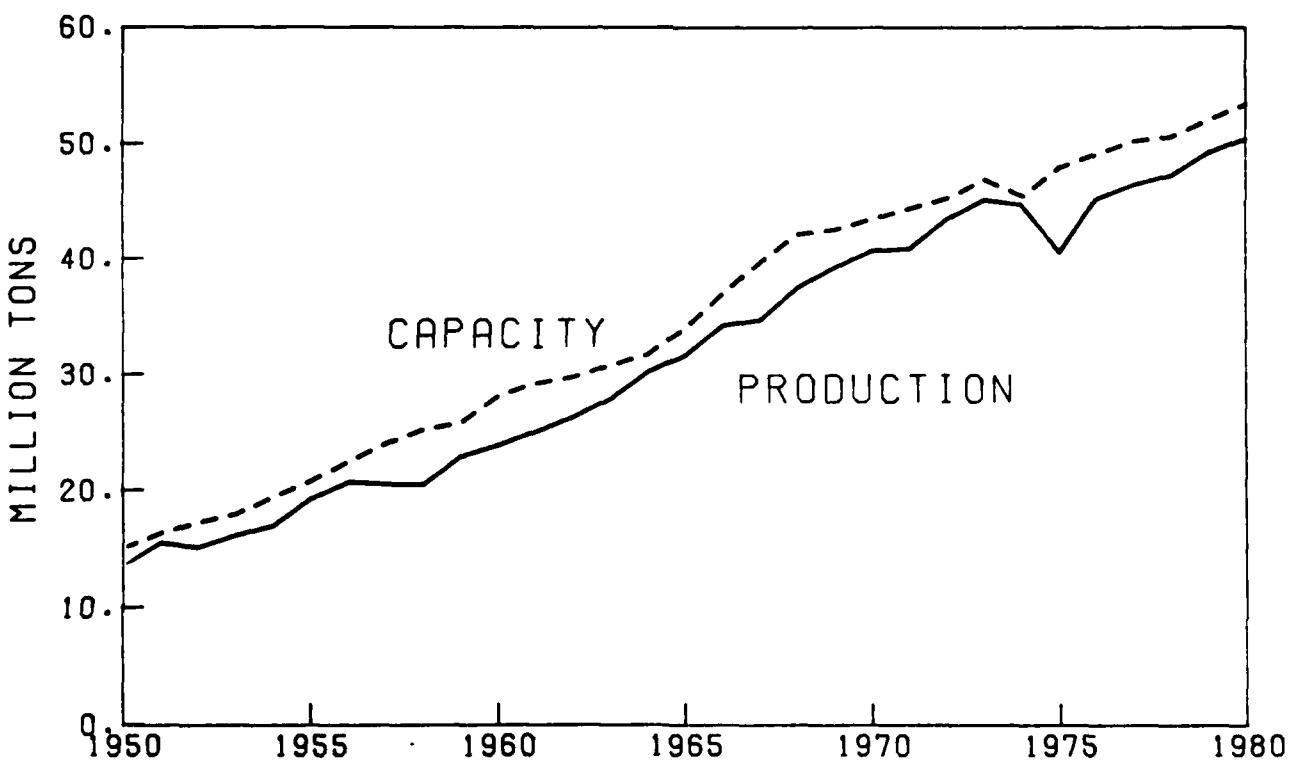


Figure 40.—Total woodpulp production and capacity in the United States, 1950-1980.  
(ML84 5040)

**Woodpulp (con.)**

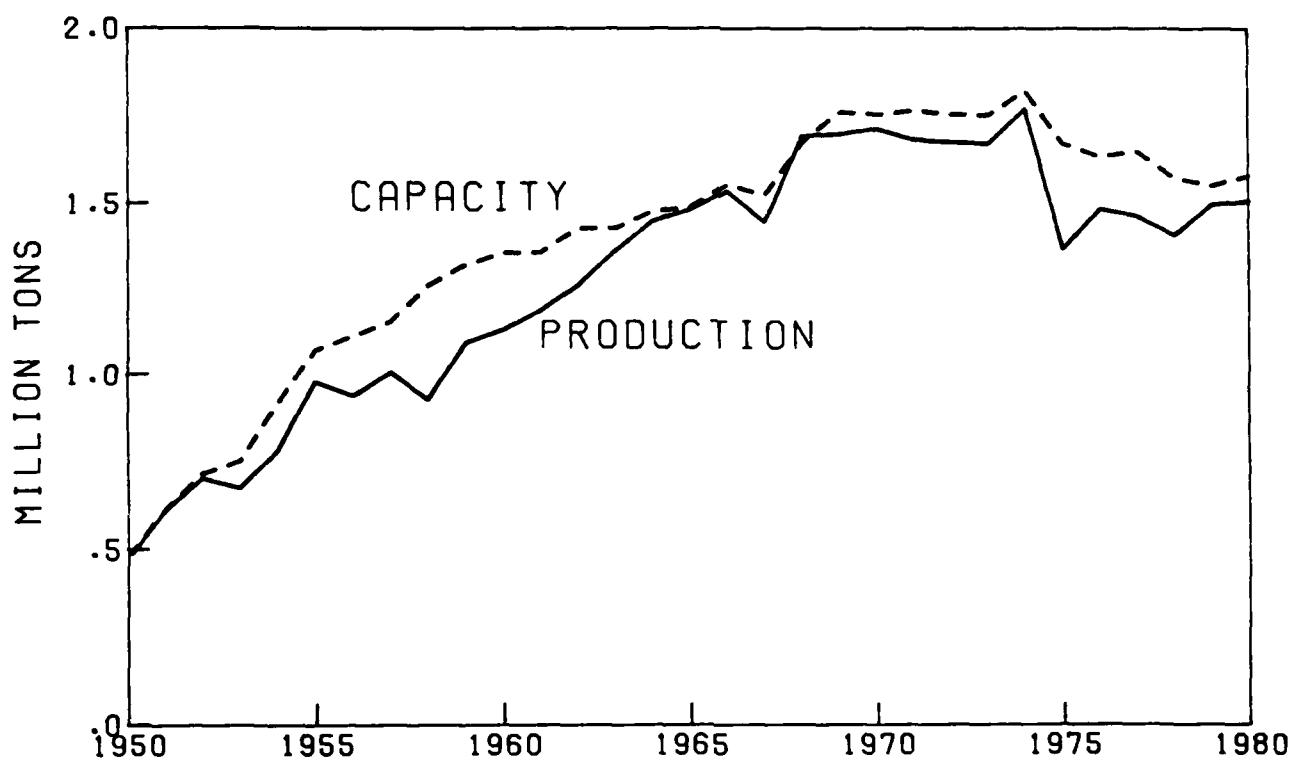


Figure 41.-Dissolving and special alpha woodpulp production and capacity in the United States, 1950-1980. (ML84 5041)

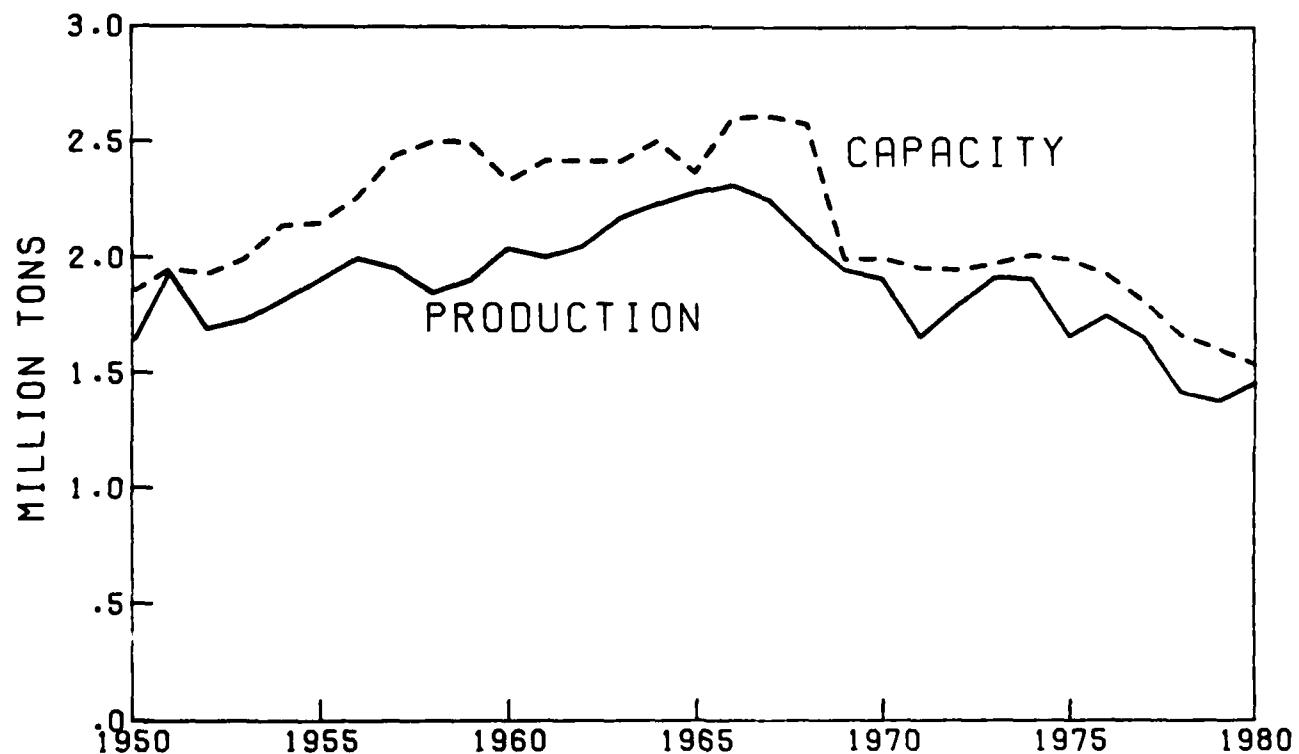


Figure 42.-Bleached sulfite (paper grades) woodpulp production and capacity in the United States, 1950-1980. (ML84 5042)

**Woodpulp (con.)**

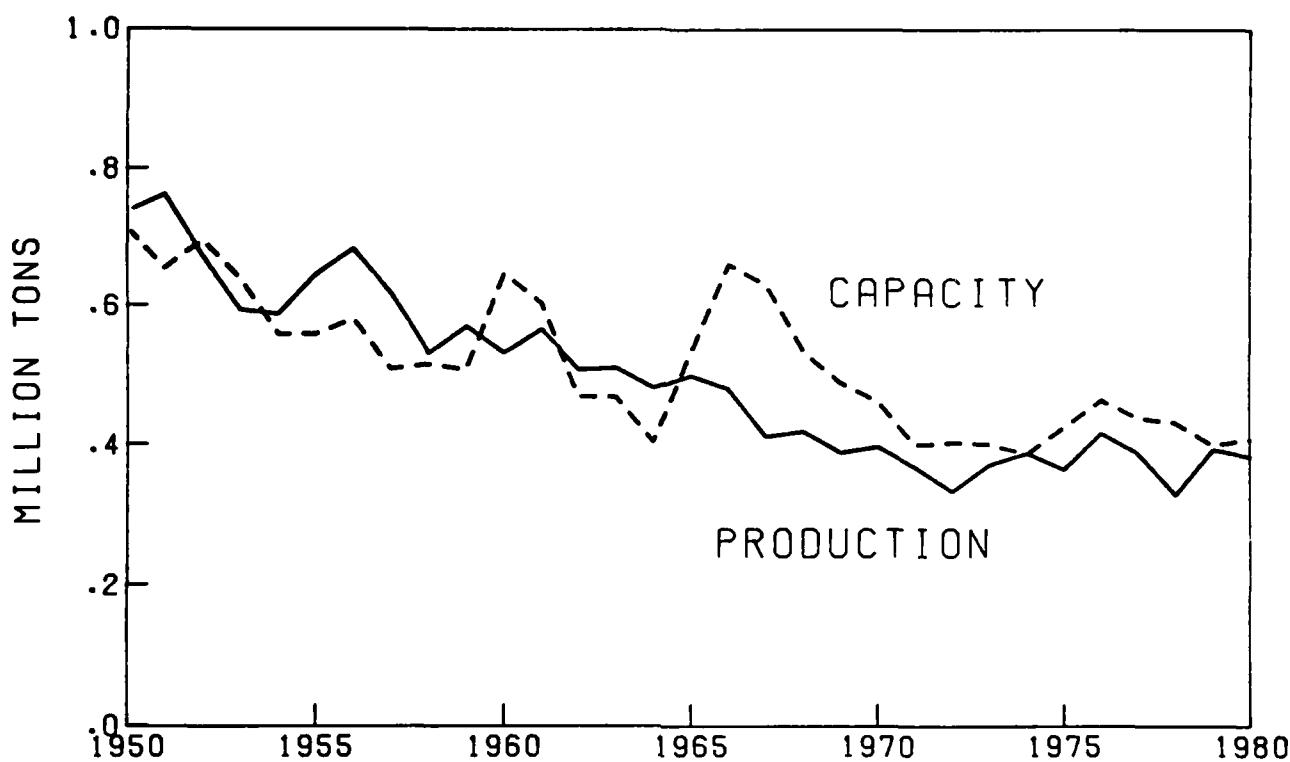


Figure 43.--Unbleached sulfite (paper grades) woodpulp production and capacity in the United States, 1950-1980. (ML84 5043)

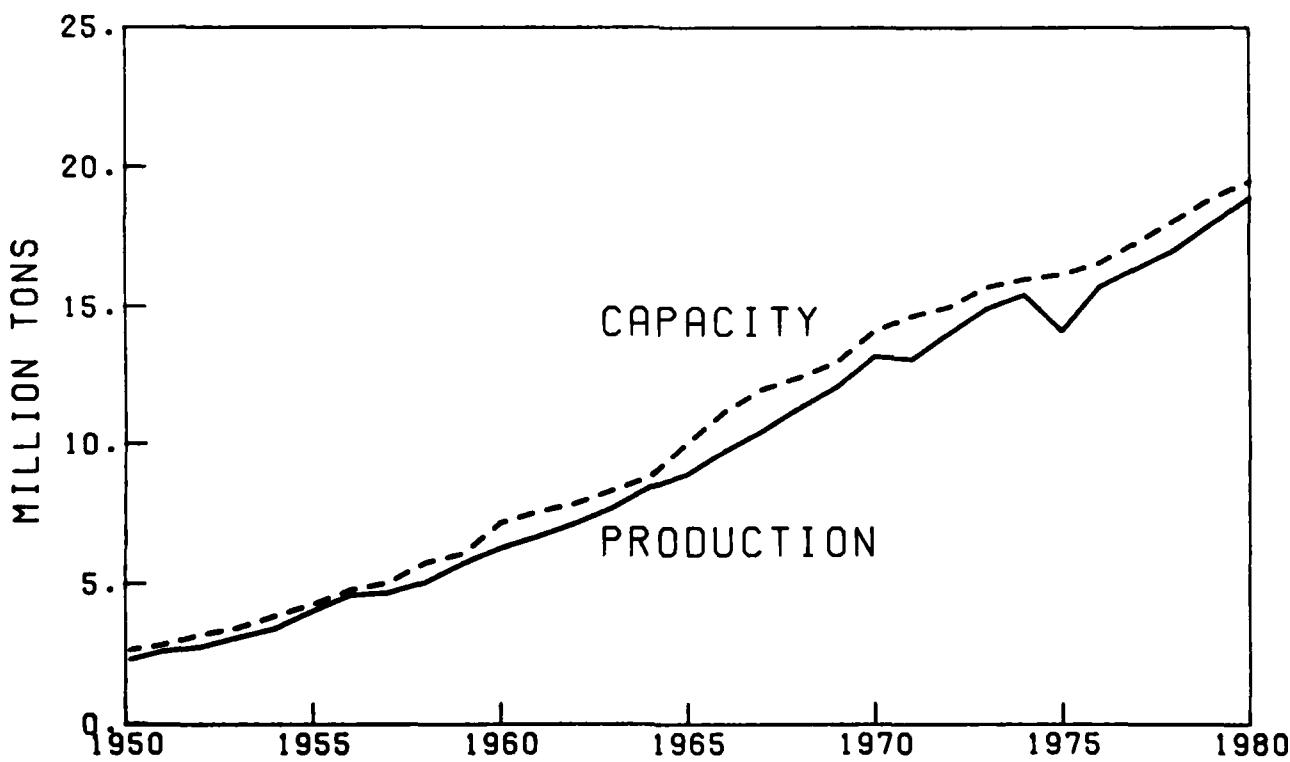


Figure 44.--Bleached and semibleached sulfate (paper grades) woodpulp production and capacity in the United States, 1950-1980. (ML84 5044)

### Woodpulp (con.)

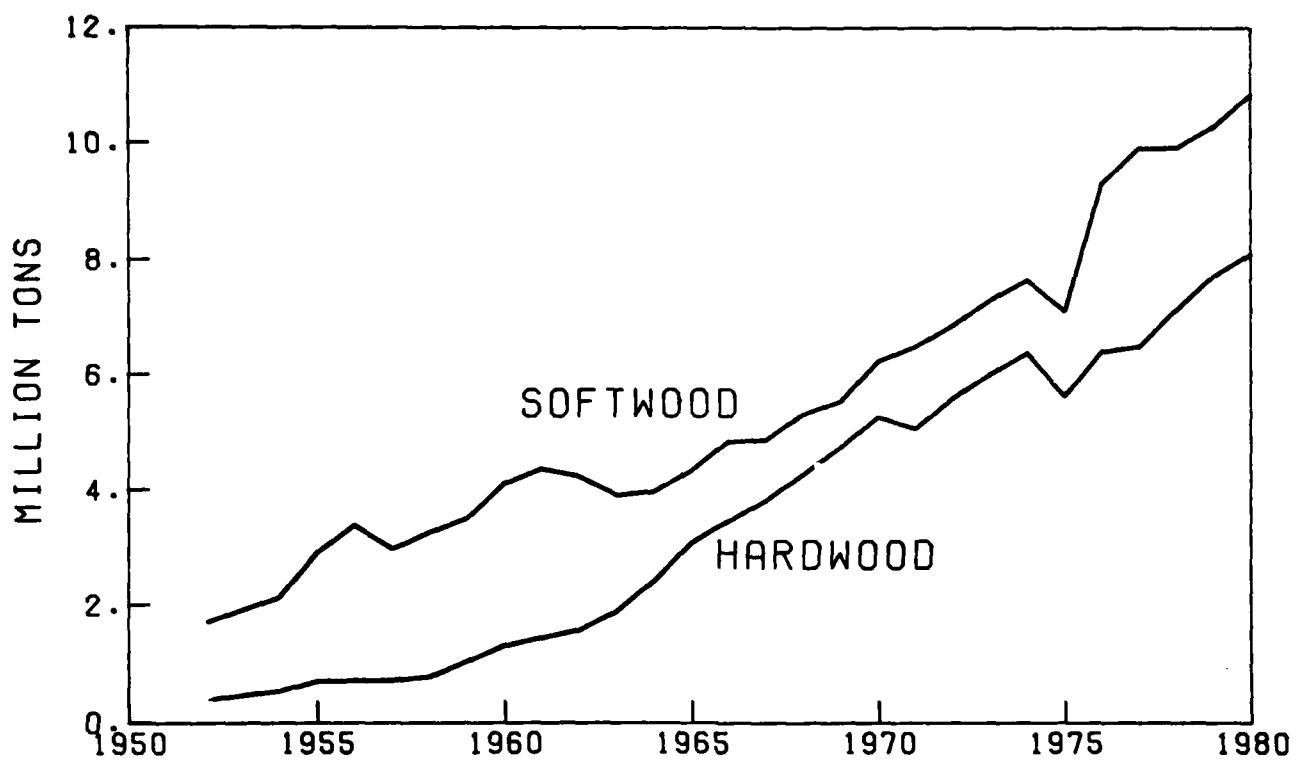


Figure 45.—Bleached sulfate and soda (paper grades) woodpulp production in the United States by species group, 1952-1980. (ML84 5045)

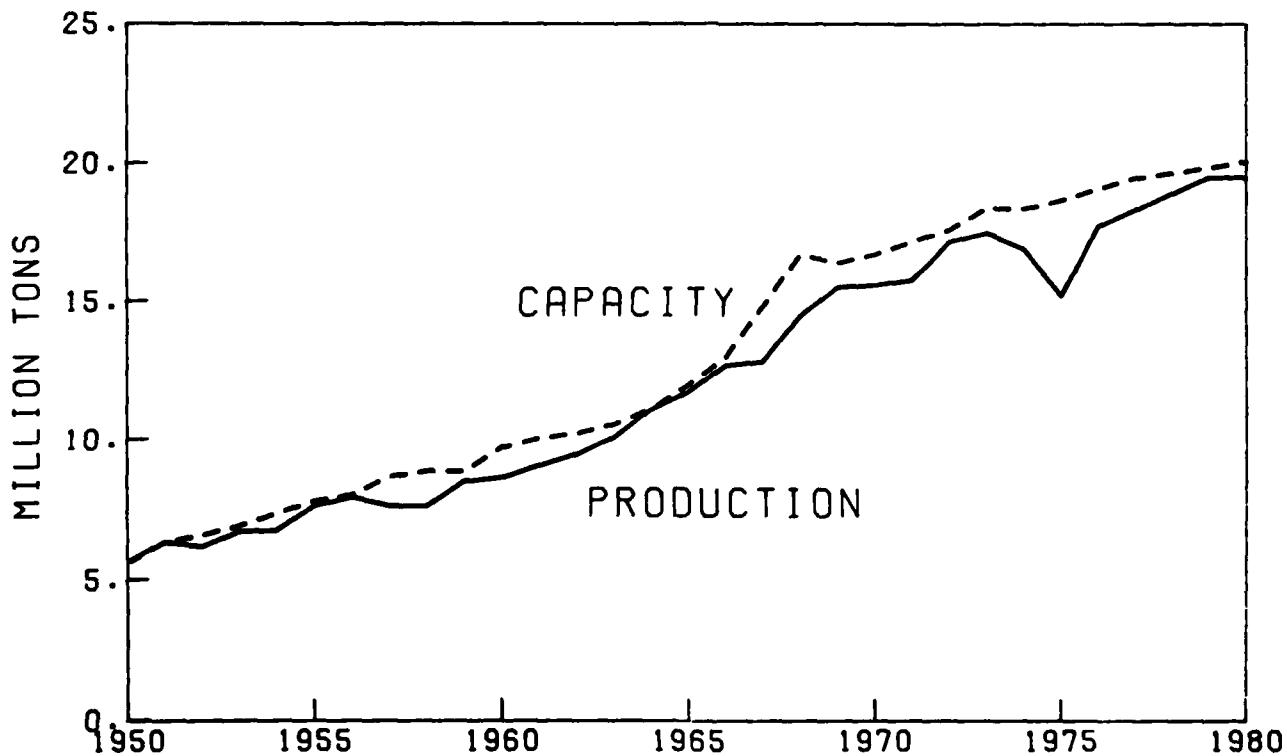


Figure 46.—Unbleached sulfate (paper grades) woodpulp production and capacity in the United States, 1950-1980. (ML84 5046)

**Woodpulp (con.)**

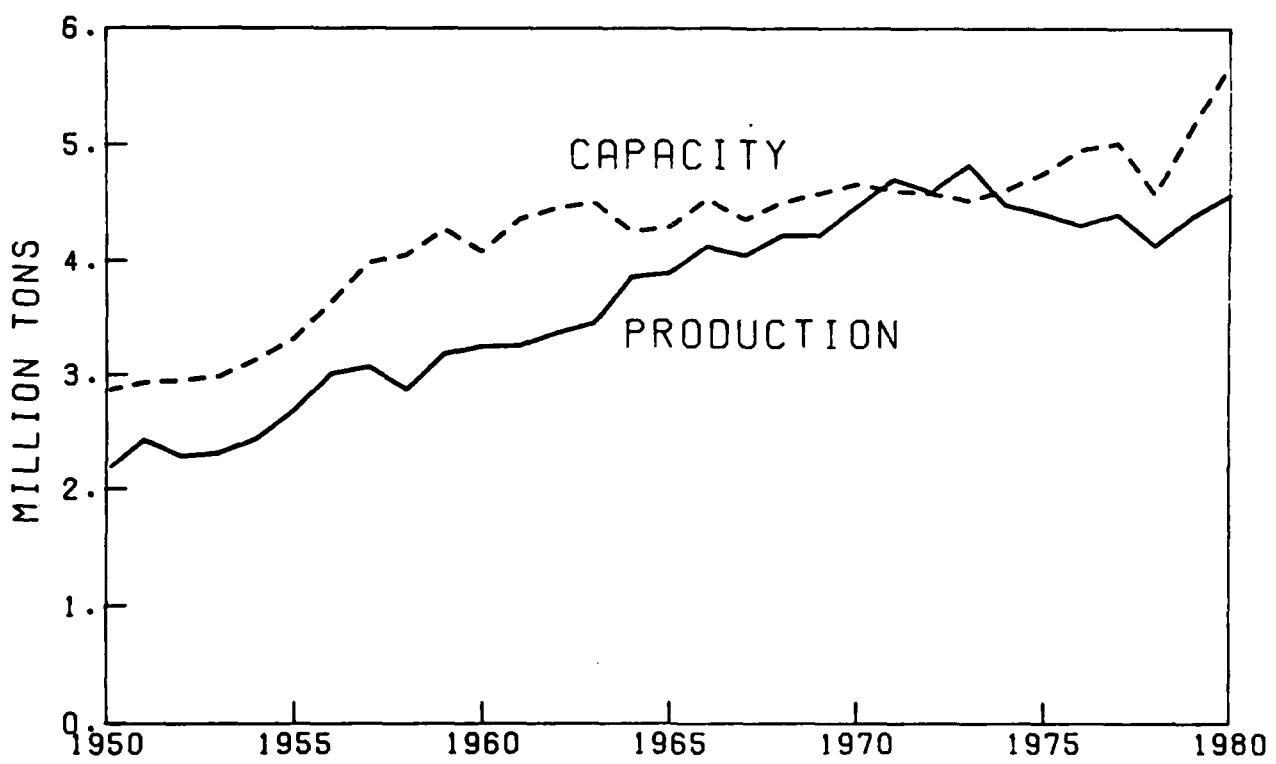


Figure 47.—Groundwood (including thermomechanical) woodpulp production and capacity in the United States, 1950-1980. (ML84 5047)

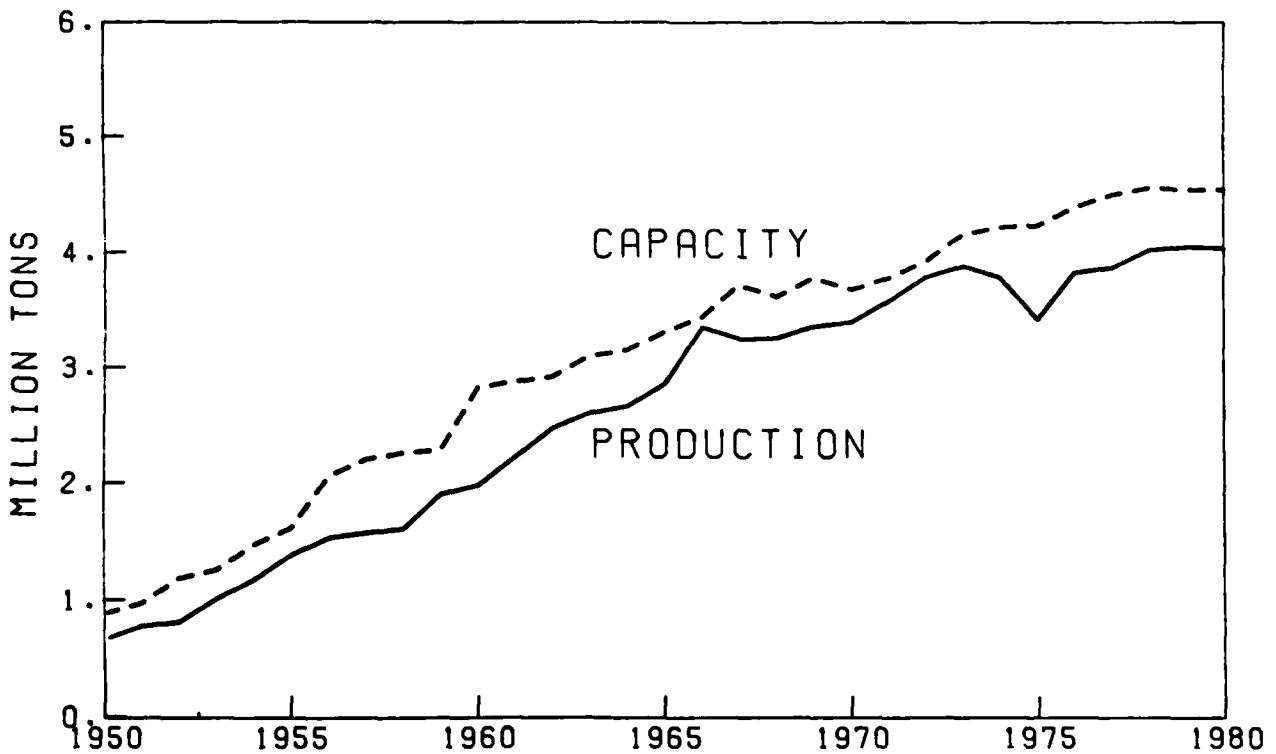


Figure 48.—Semichemical (paper grades) woodpulp production and capacity in the United States, 1950-1980. (ML84 5048)

**Foreign Trade**  
**Lumber**

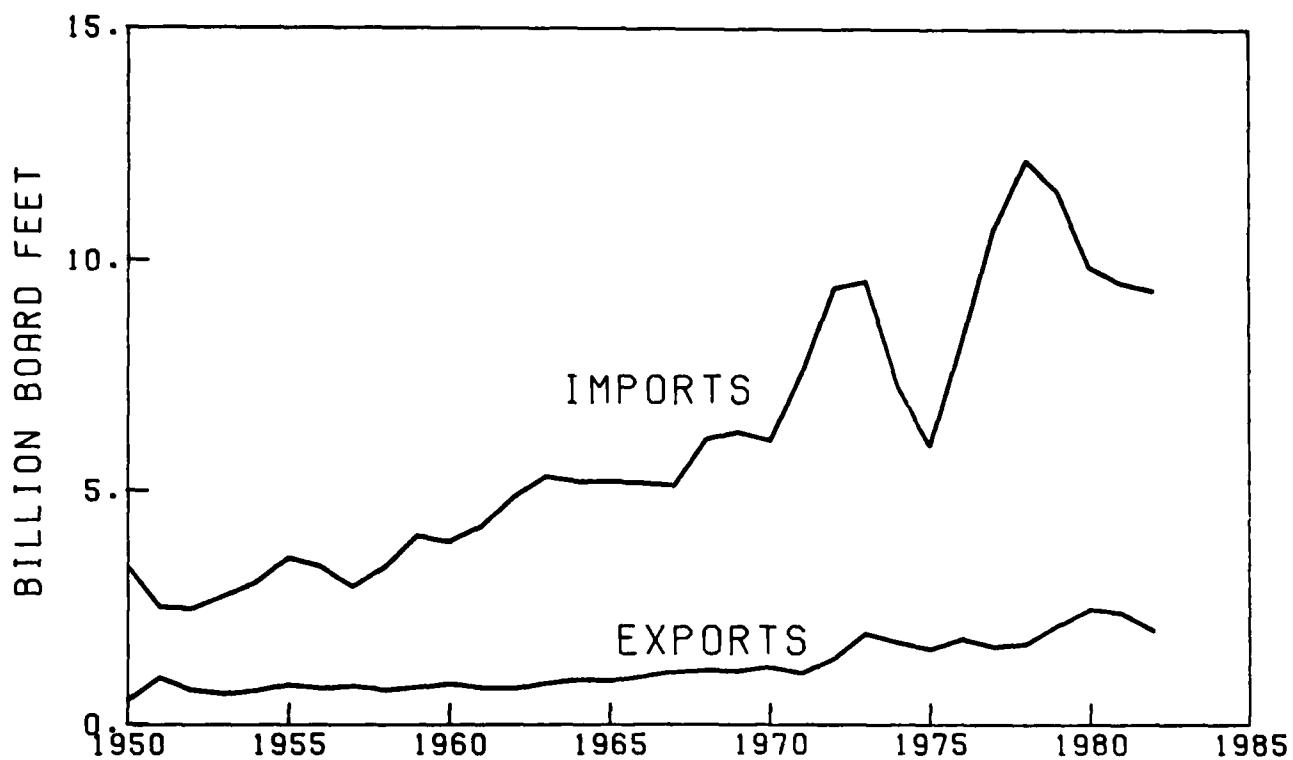


Figure 49.--Lumber imports and exports in the United States, 1950-1982. (ML84 5049)

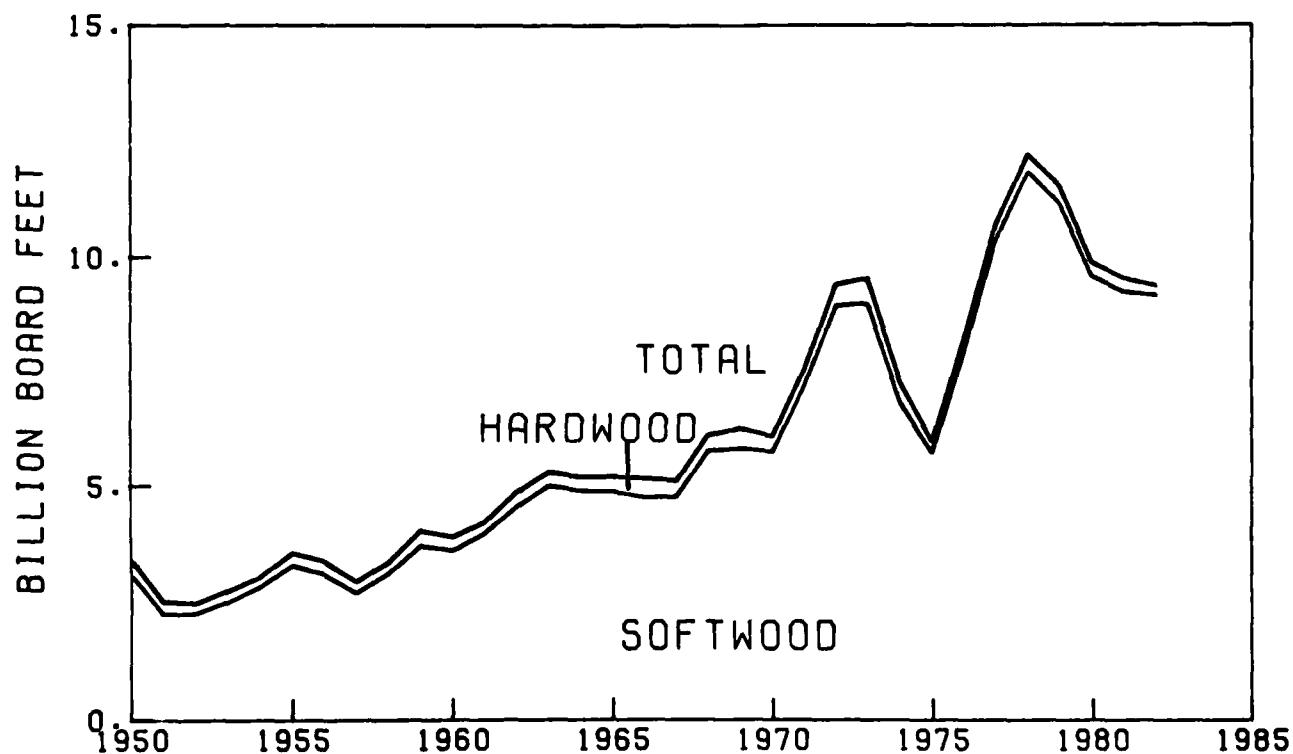


Figure 50.--Cumulative lumber imports to the United States by species group, 1950-1982. (ML84 5050)

**Lumber (con.)**

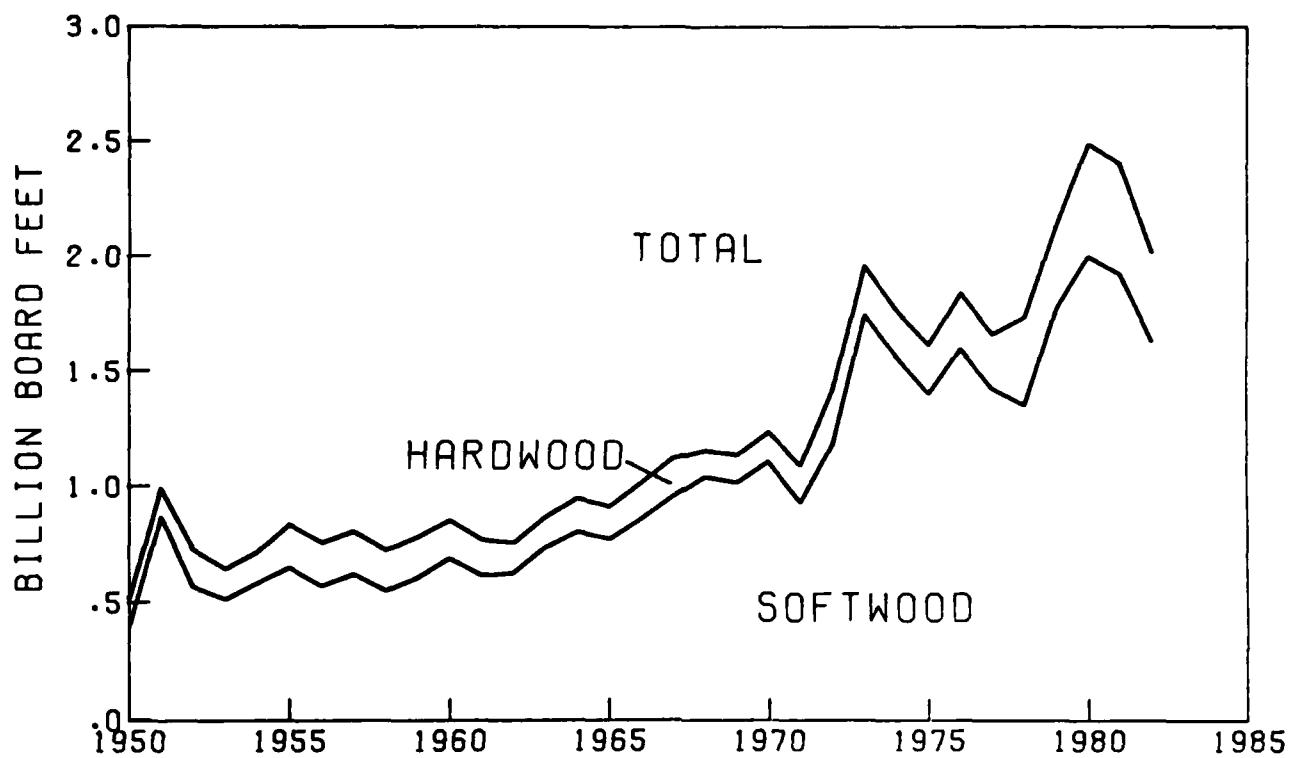


Figure 51.-Cumulative lumber exports from the United States by species group, 1950-1982.  
(ML84 5051)

**Plywood**

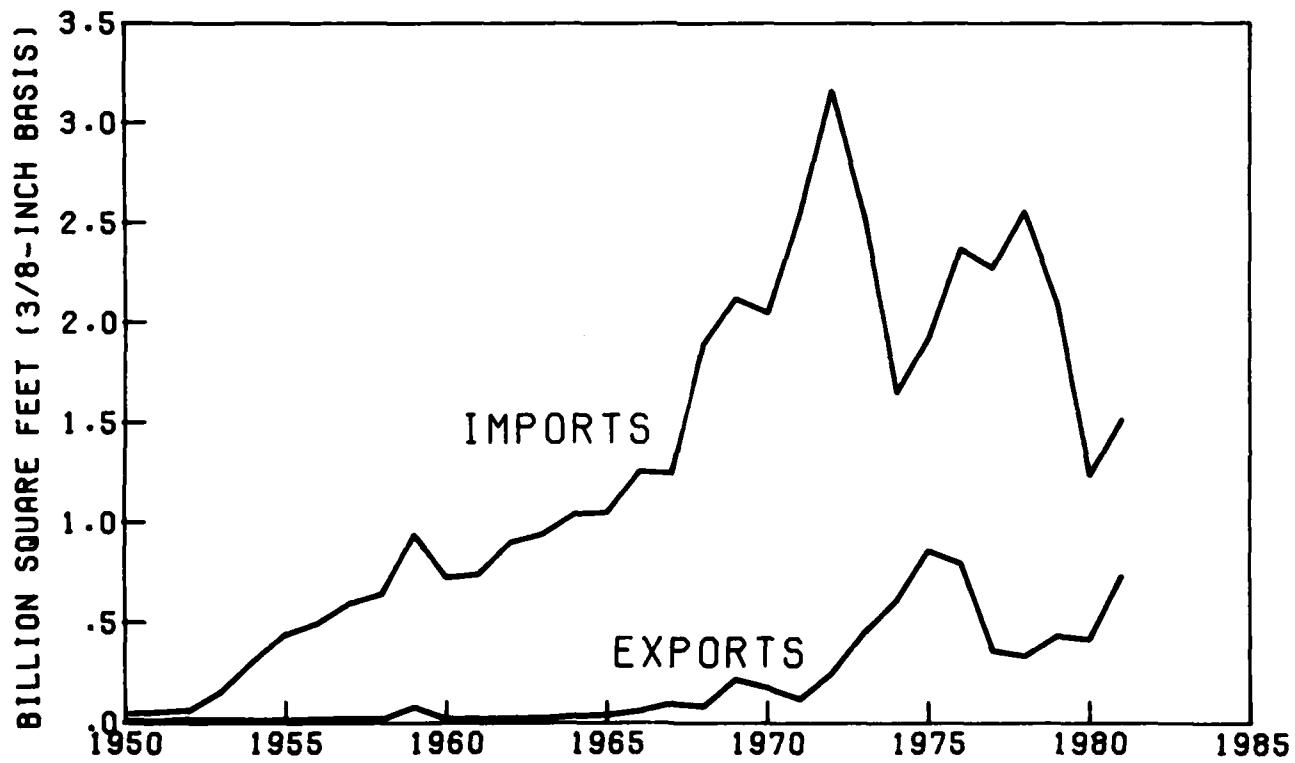


Figure 52.--Plywood imports and exports in the United States, 1950-1981. (ML84 5052)

**Plywood (con.)**

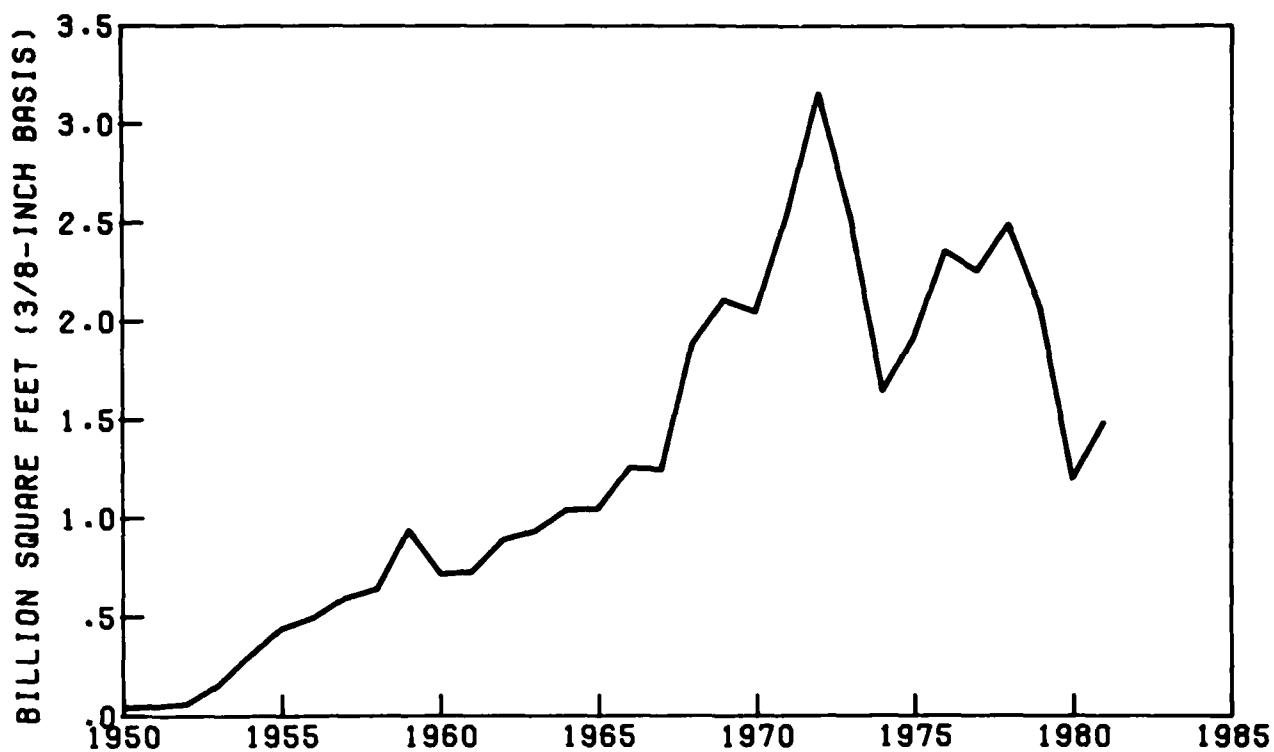


Figure 53.—Hardwood plywood imports to the United States, 1950-1981. (ML84 5053)

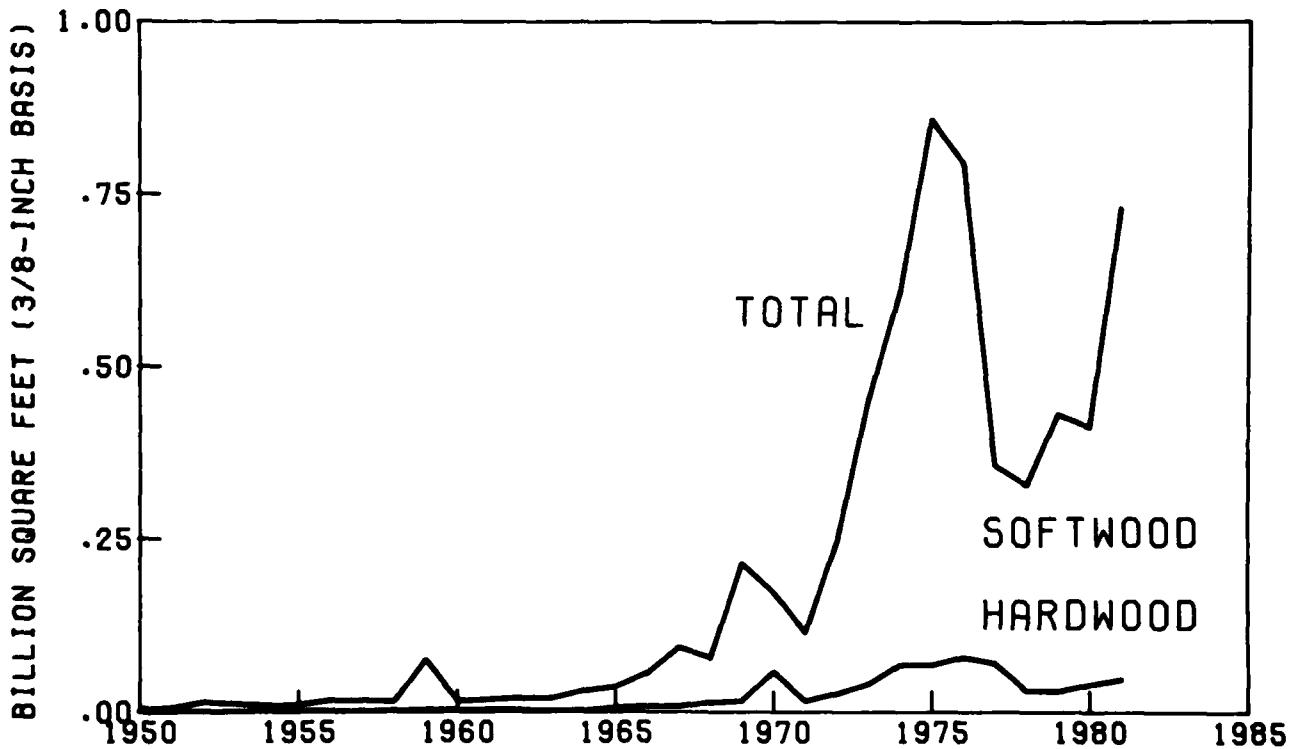


Figure 54.—Cumulative plywood exports from the United States by species group, 1950-1981. (ML84 5054)

### **Particleboard and Medium-Density Fiberboard**

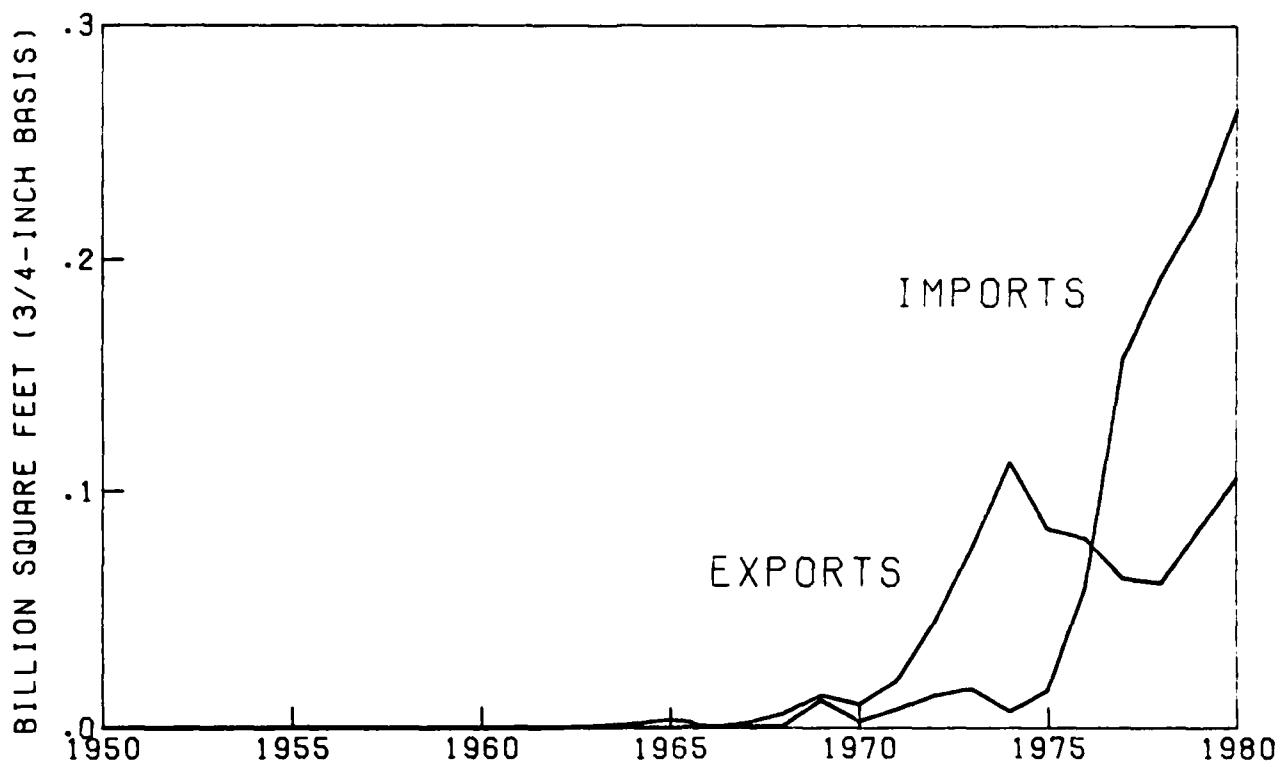


Figure 55.--Particleboard and medium-density fiberboard imports and exports in the United States, 1950-1980. (ML84 5055)

### **Hardboard and Insulation Board**

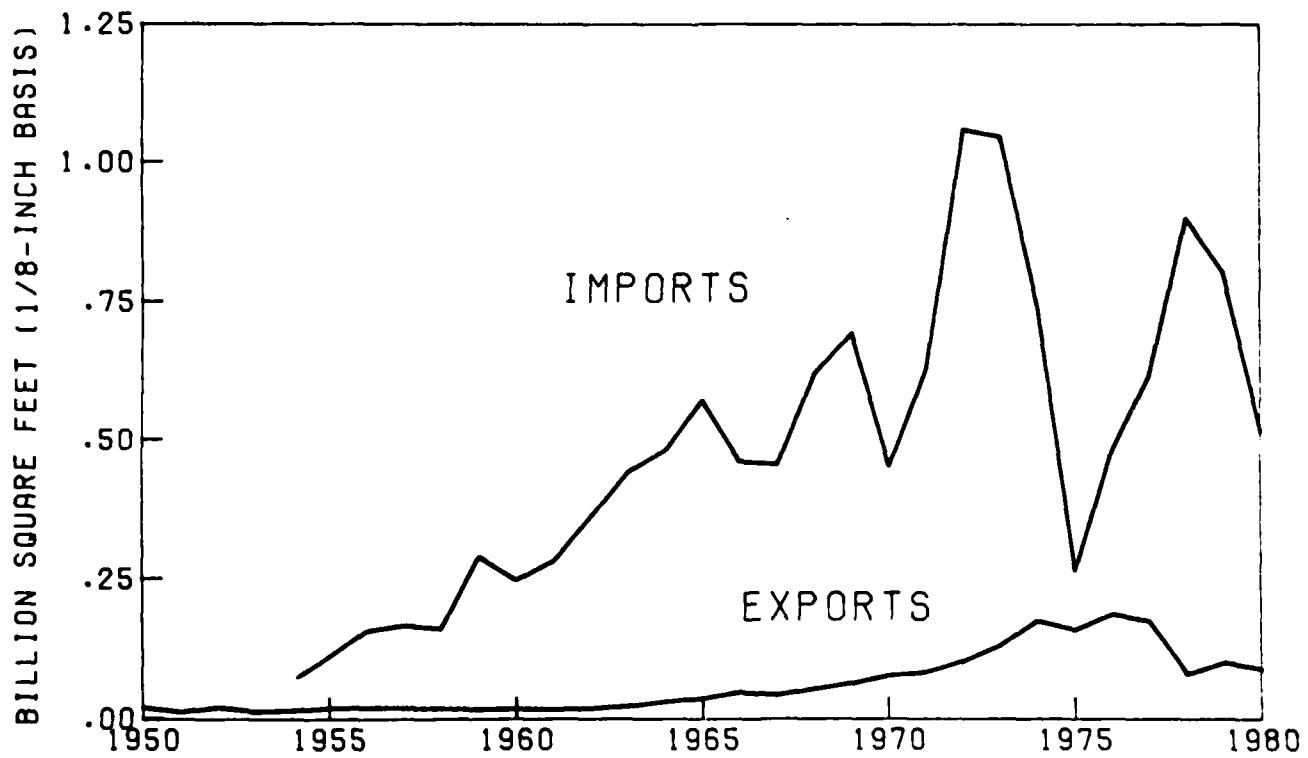


Figure 56.--Hardboard imports and exports in the United States, 1950-1980. (ML84 5056)

**Hardboard and Insulation Board (con.)**

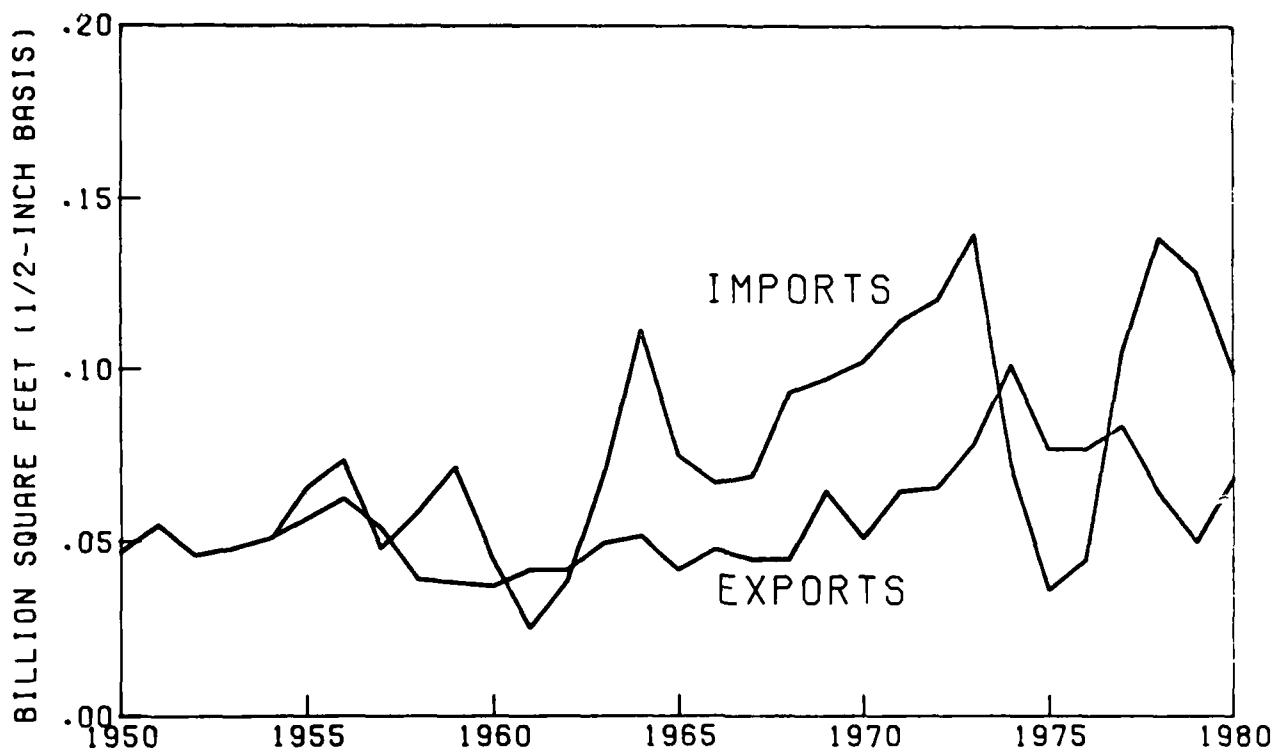


Figure 57.--Insulation board imports and exports in the United States, 1950-1980.  
(ML84 5057)

**U.S. End-Use Demand for Timber**  
**Wood Products Used in Manufactured Goods**

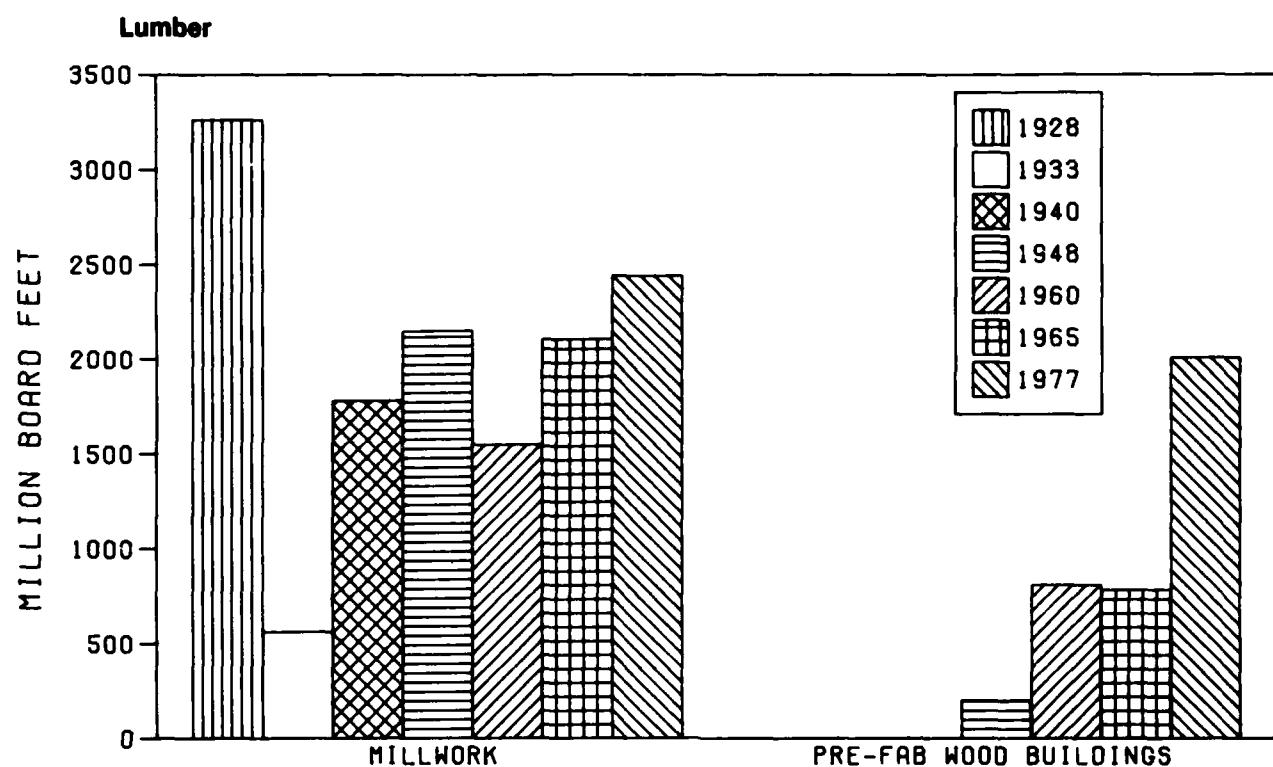


Figure 58.--Lumber used in manufacturing for millwork and for prefabricated housing, selected years, 1928-1977. (ML84 5058)

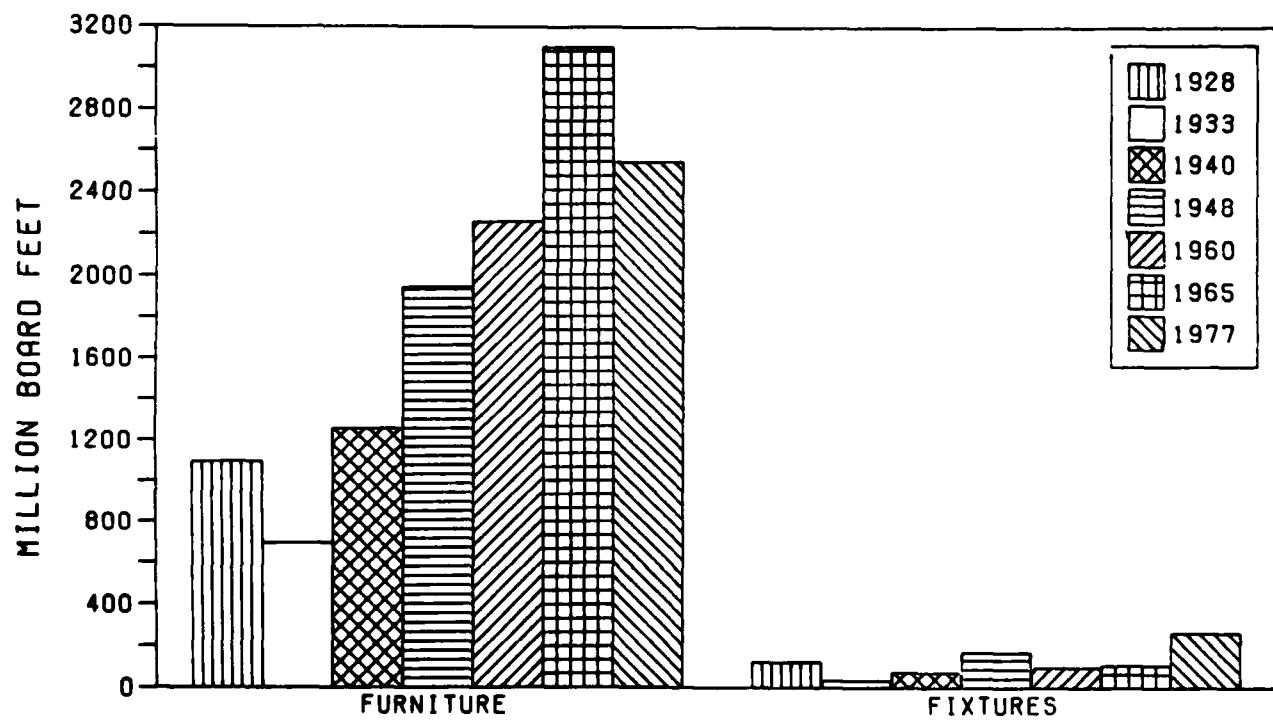


Figure 59.--Lumber used in manufacturing for furniture and for fixtures, selected years, 1928-1977. (ML84 5059)

## Wood Products Used in Manufactured Goods (con.)

### Lumber (con.)

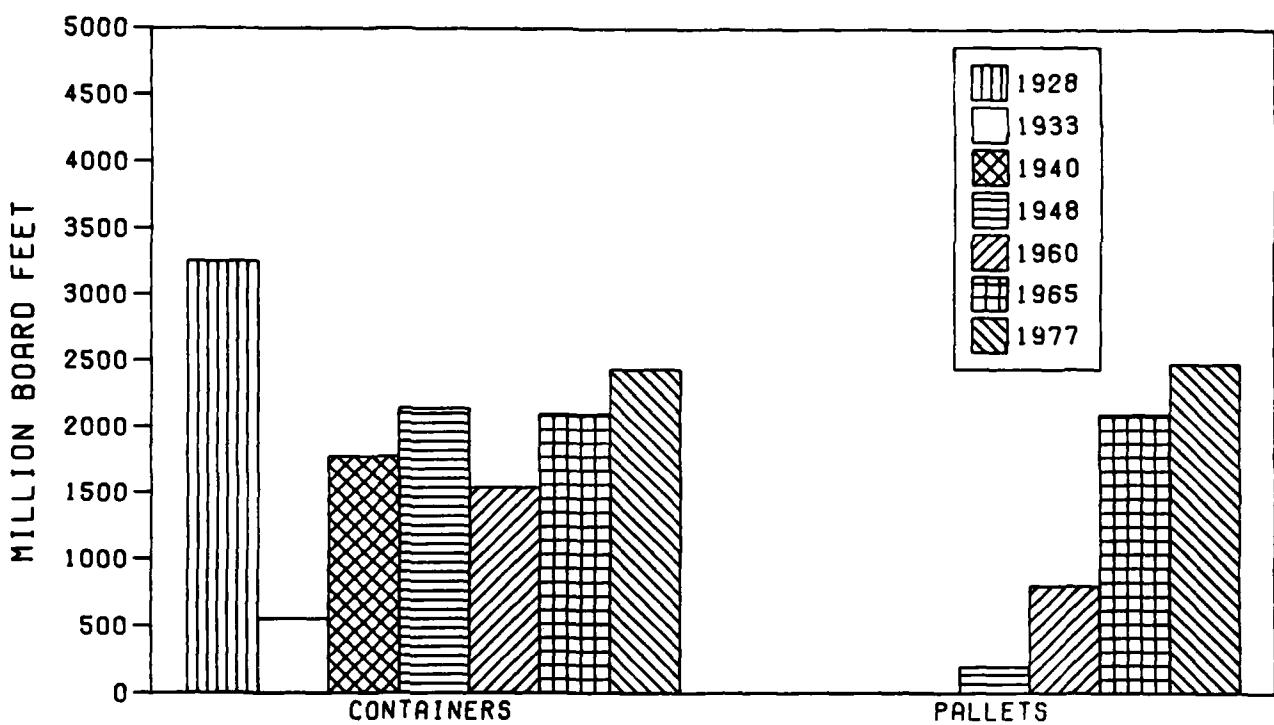


Figure 60.--Lumber used in manufacturing for containers and for pallets, selected years, 1928-1977. (ML84 5060)

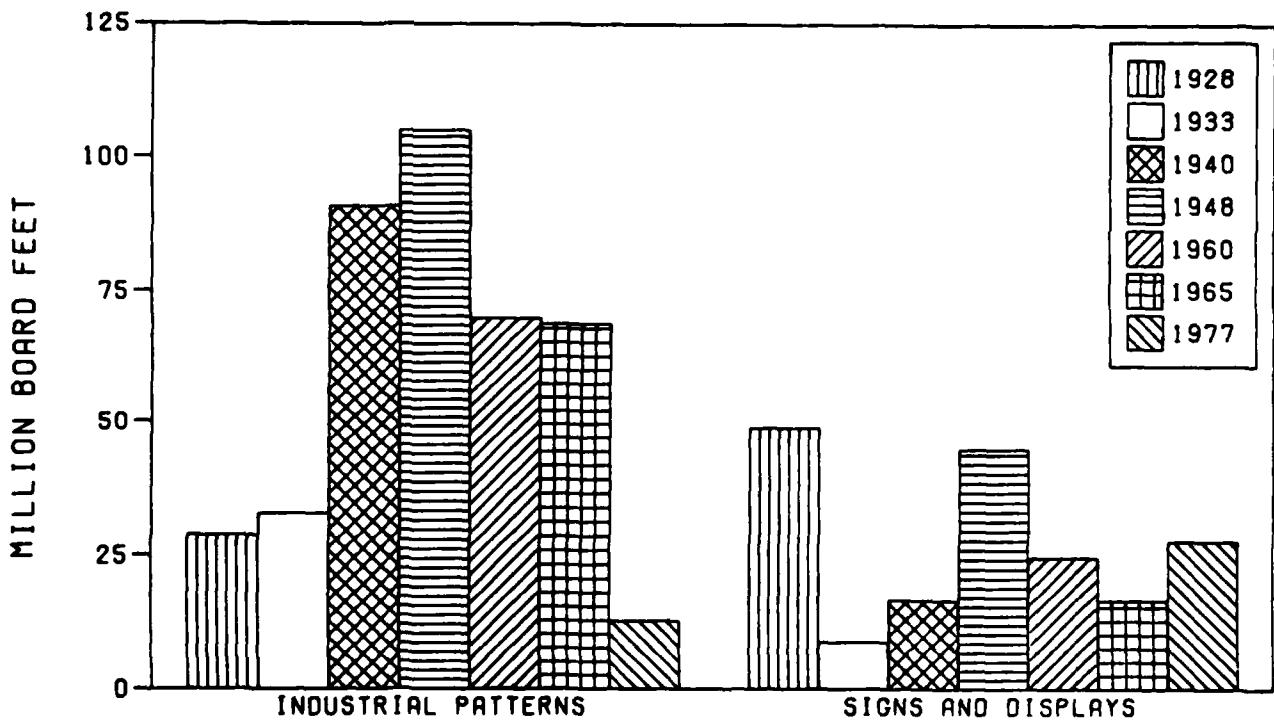


Figure 61.--Lumber used in manufacturing for industrial patterns and for signs and displays, selected years, 1928-1977. (ML84 5061)

## Wood Products Used in Manufactured Goods (con.)

### Lumber (con.)

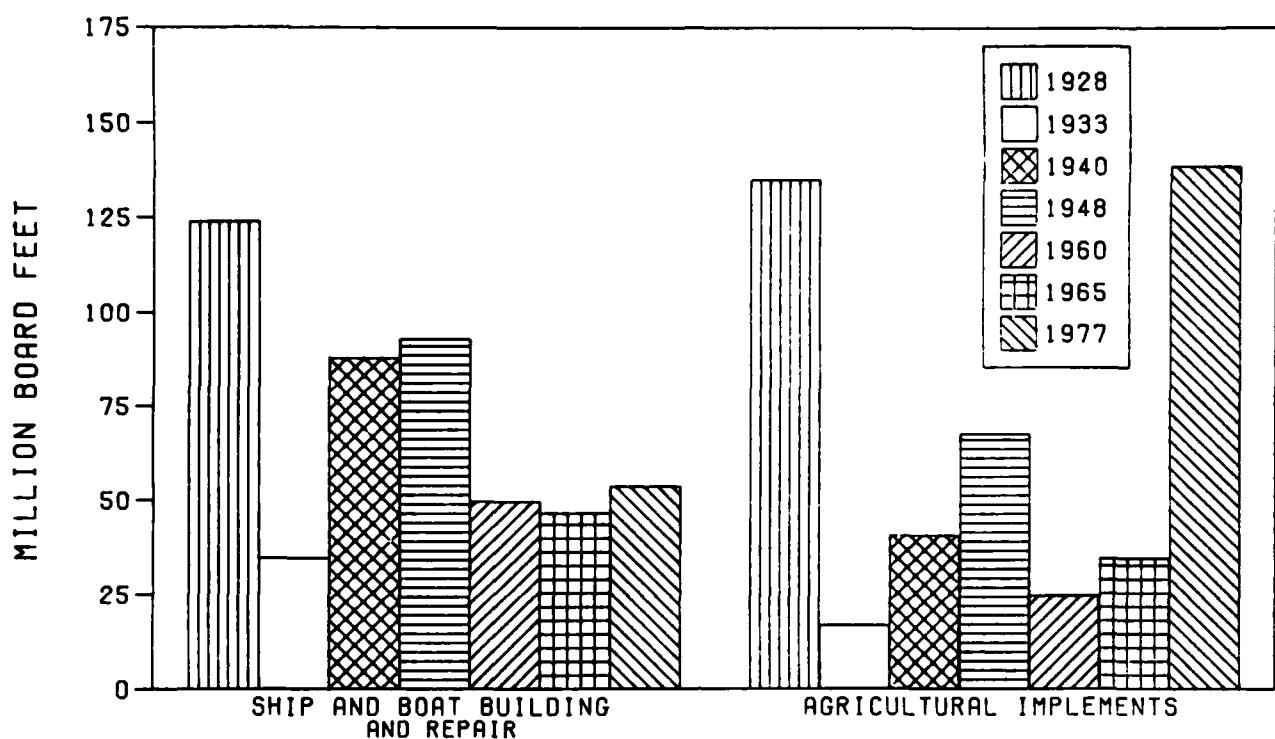


Figure 62.--Lumber used in manufacturing for ship and boat building and repair and for agricultural implements, selected years, 1928-1977. (ML84 5062)

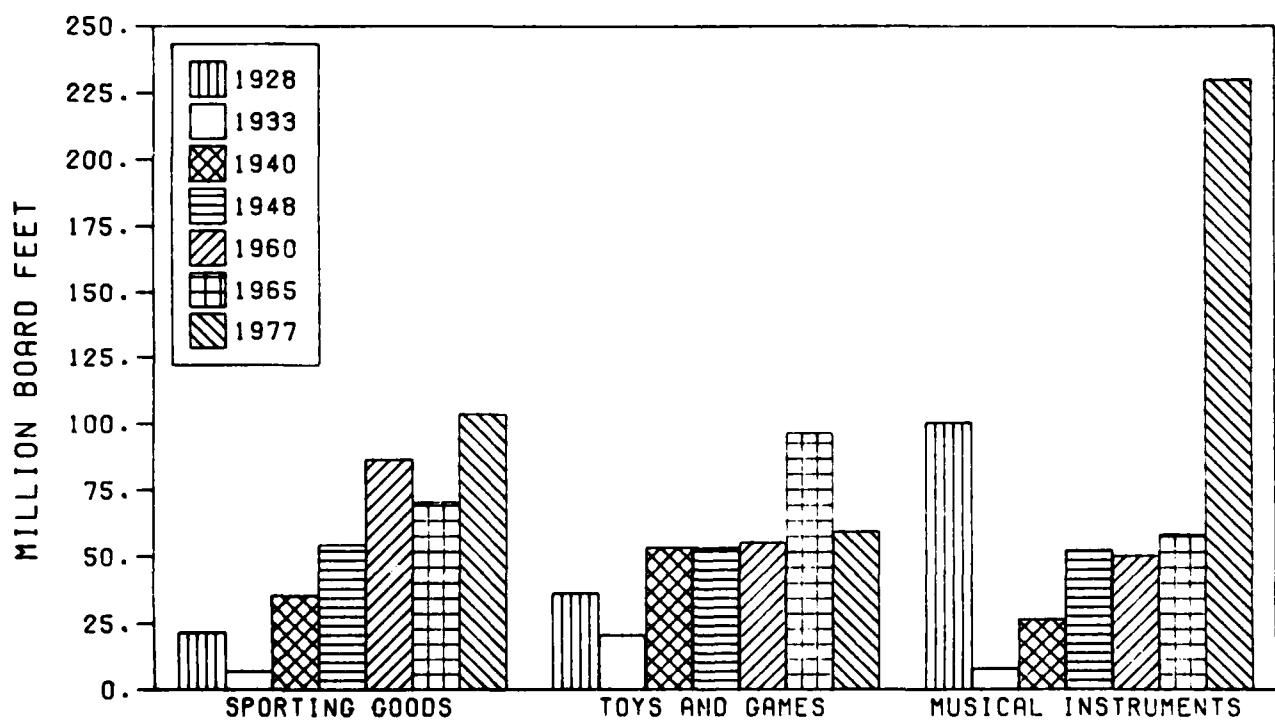


Figure 63.--Lumber used in manufacturing for sporting goods, for toys and games, and for musical instruments, selected years, 1928-1977. (ML84 5063)

## Wood Products Used in Manufactured Goods (con.)

### Hardwood Lumber

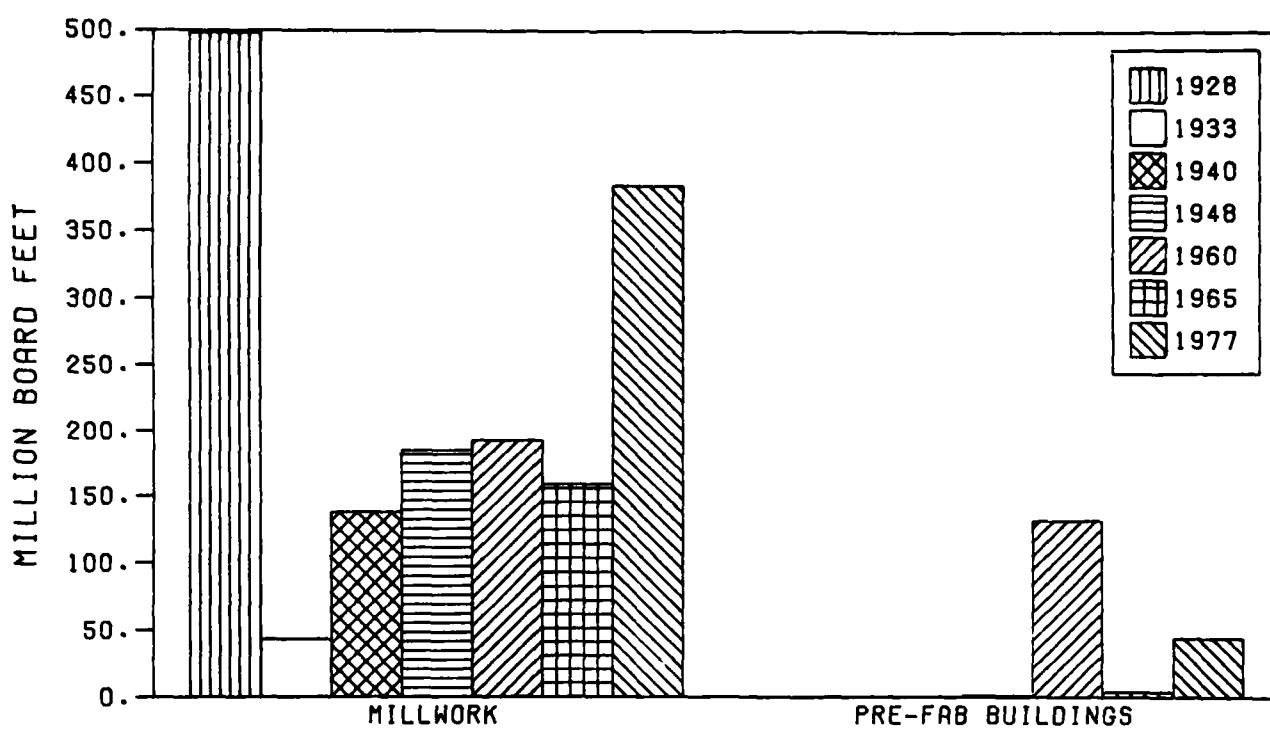


Figure 64.—Hardwood lumber used in manufacturing for millwork and for prefabricated wooden buildings, selected years, 1928-1977. (ML84 5064)

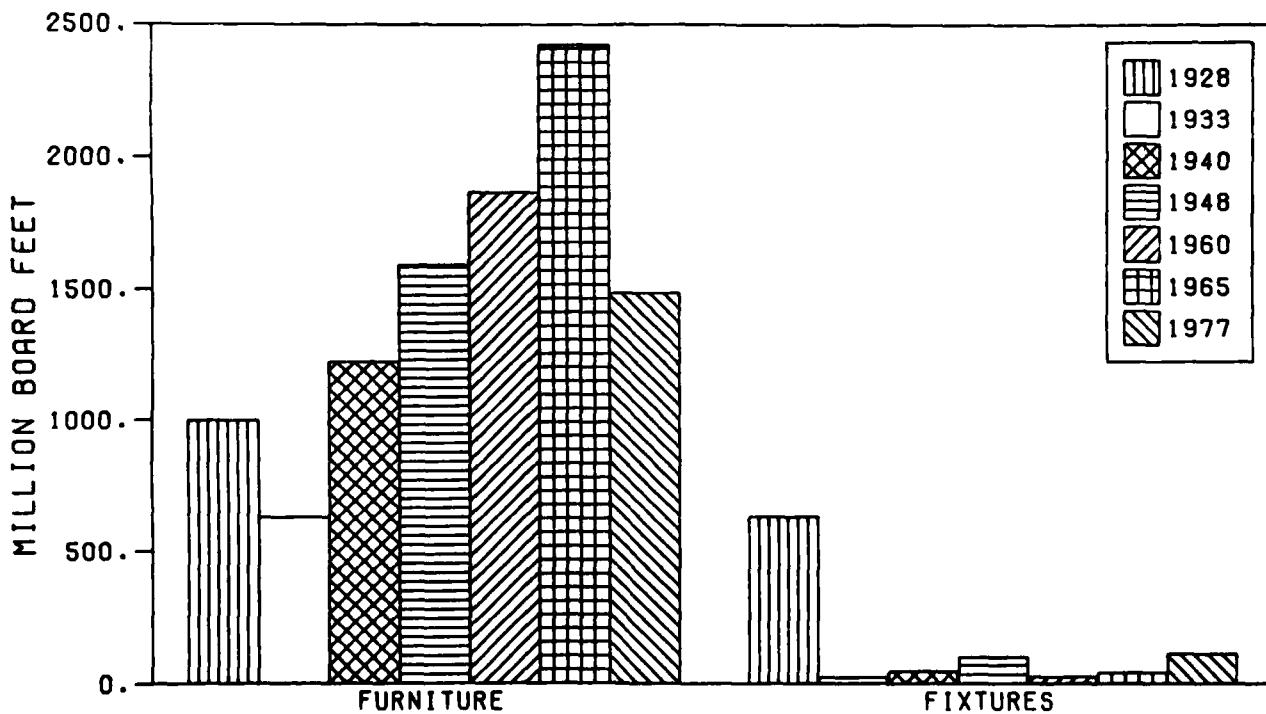


Figure 65.—Hardwood lumber used in manufacturing for furniture and for fixtures, selected years, 1928-1977. (ML84 5065)

## Wood Products Used in Manufactured Goods (con.)

### Hardwood Lumber (con.)

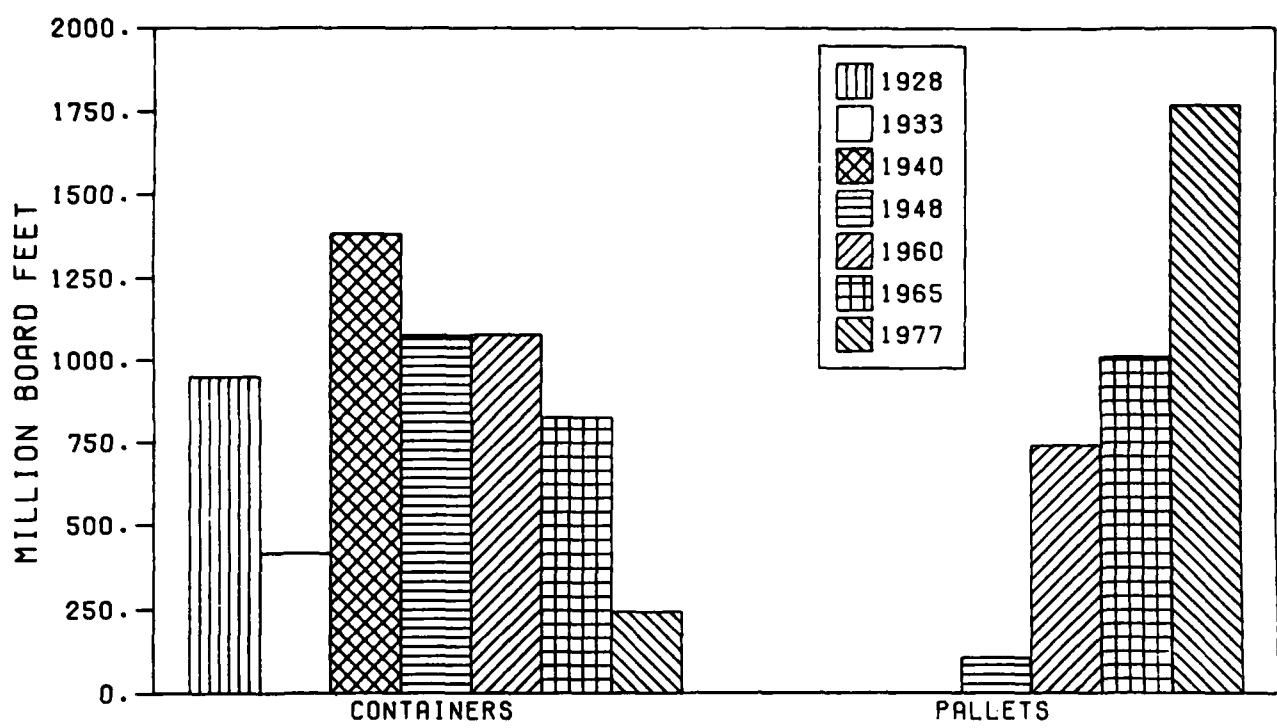


Figure 66.--Hardwood lumber used in manufacturing for containers and for pallets, selected years, 1928-1977. (ML84 5066)

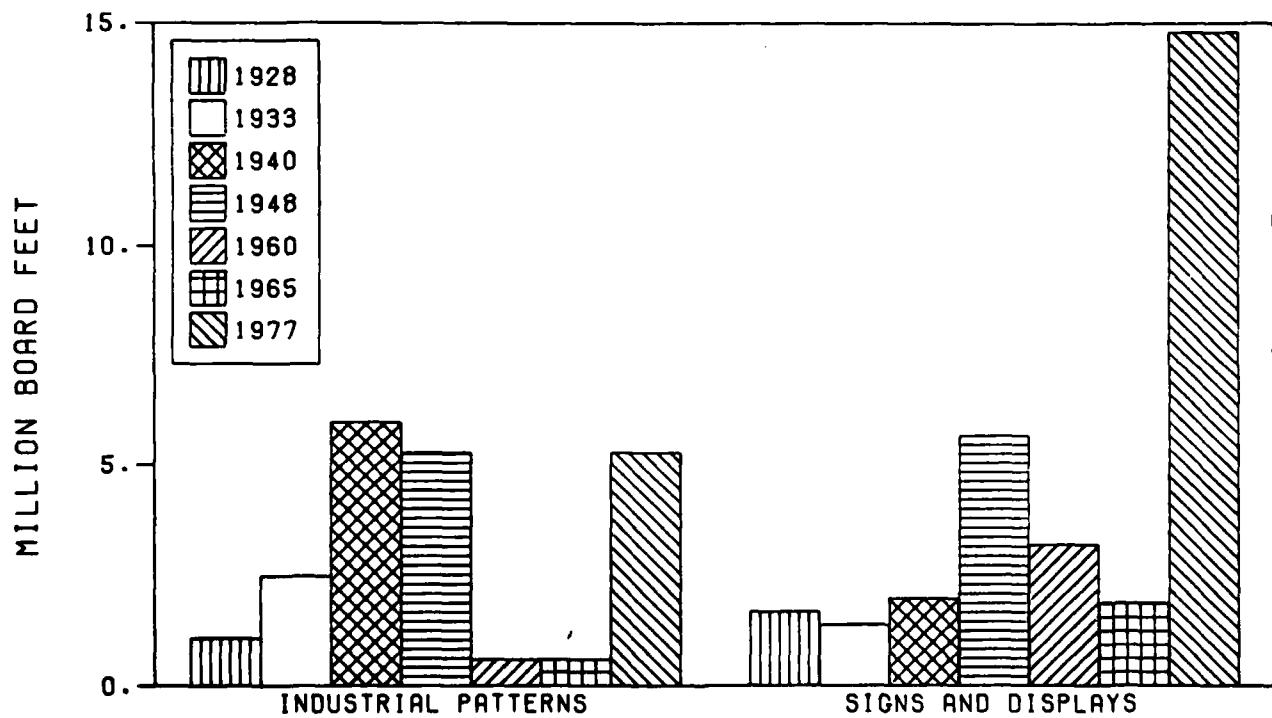


Figure 67.--Hardwood lumber used in manufacturing for industrial patterns and for signs and displays, selected years, 1928-1977. (ML84 5067)

## Wood Products Used in Manufactured Goods (con.)

### Hardwood Lumber (con.)

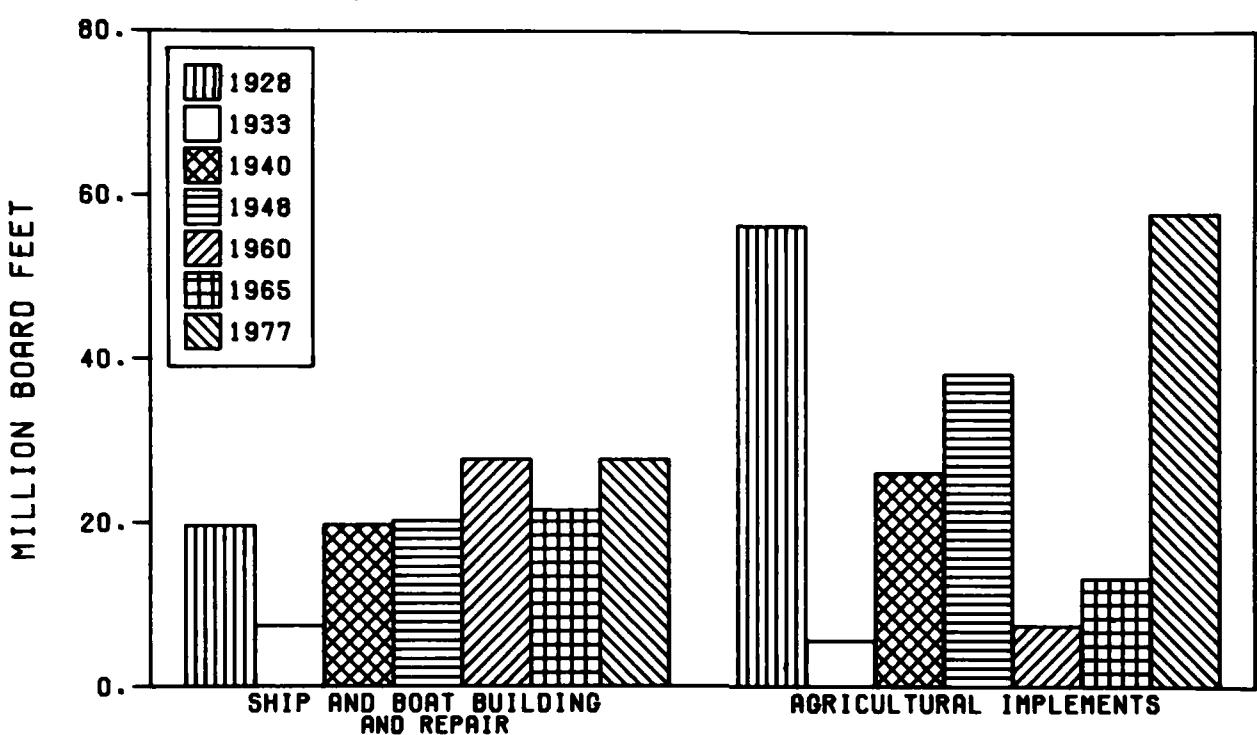


Figure 68.—Hardwood lumber used in manufacturing for ship and boat building and repair and for agricultural implements, selected years, 1928-1977. (ML84 5068)

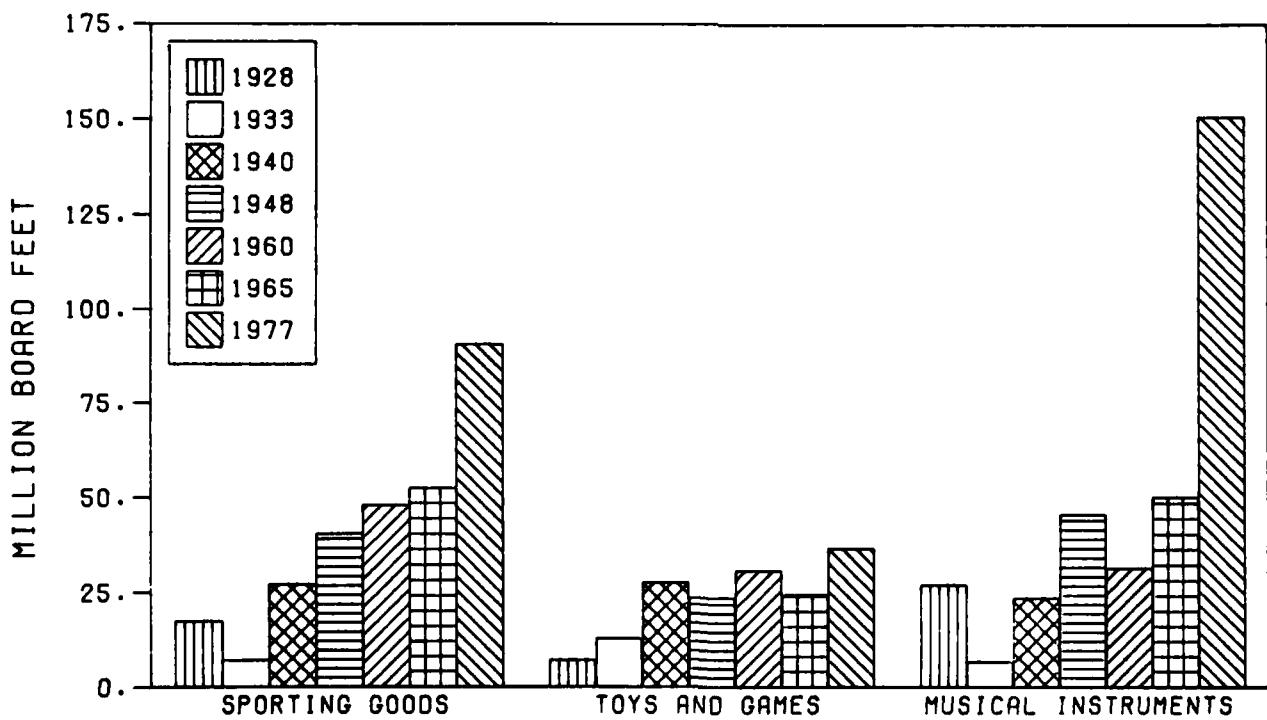


Figure 69.—Hardwood lumber used in manufacturing for sporting goods, for toys and games, and for musical instruments, selected years, 1928-1977. (ML84 5069)

### Wood Products Used in Manufactured Goods (con.)

#### Hardwood Lumber (con.)

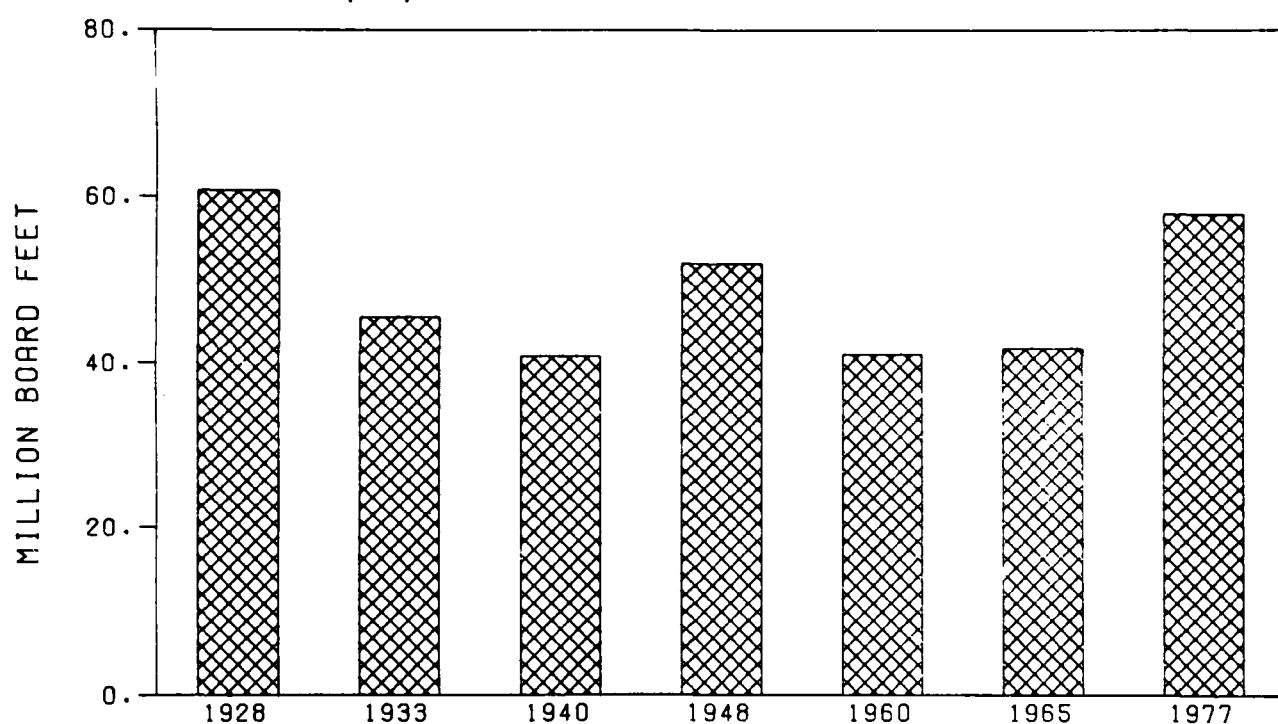


Figure 70.--Hardwood lumber used in manufacturing for caskets, selected years, 1928-1977.  
(ML84 5070)

### Wood Products Used by Manufacturing Industries

#### Lumber

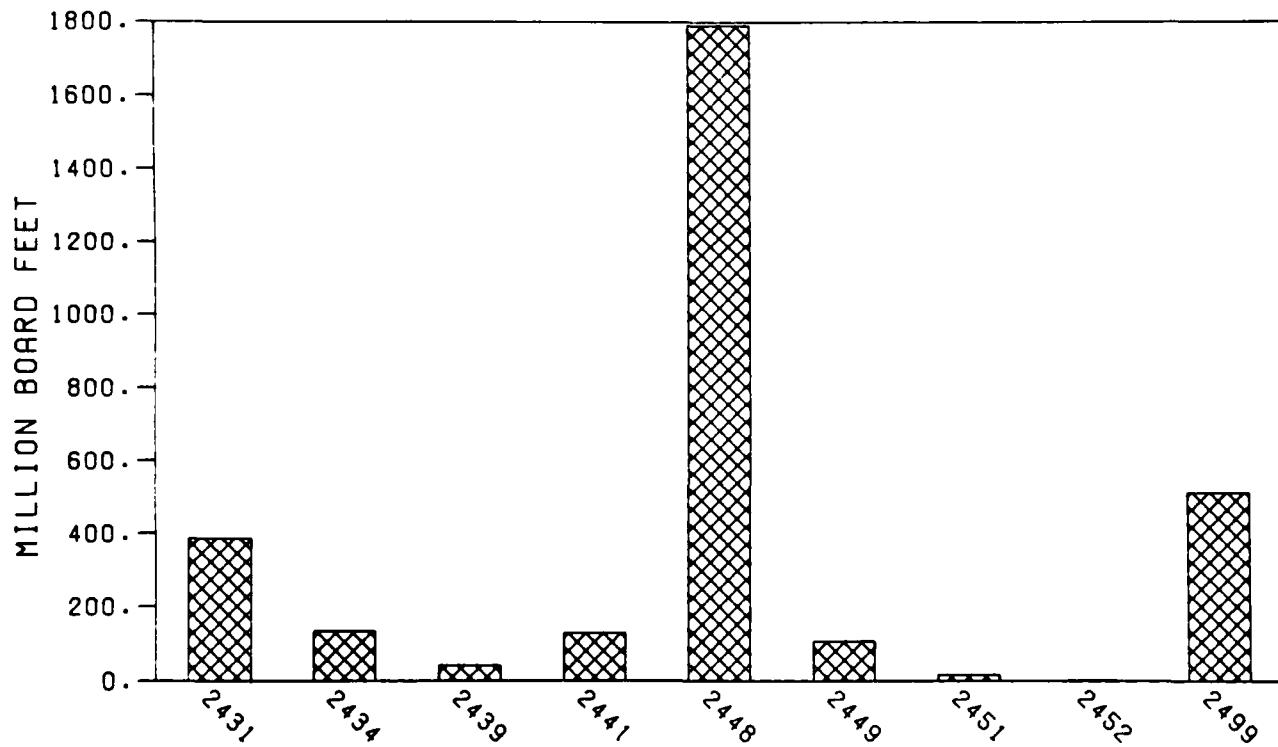


Figure 71.--Hardwood lumber used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for Standard Industrial Classification (SIC) code numbers. (ML84 5071)

### Wood Products Used by Manufacturing Industries (con.)

#### Lumber (con.)

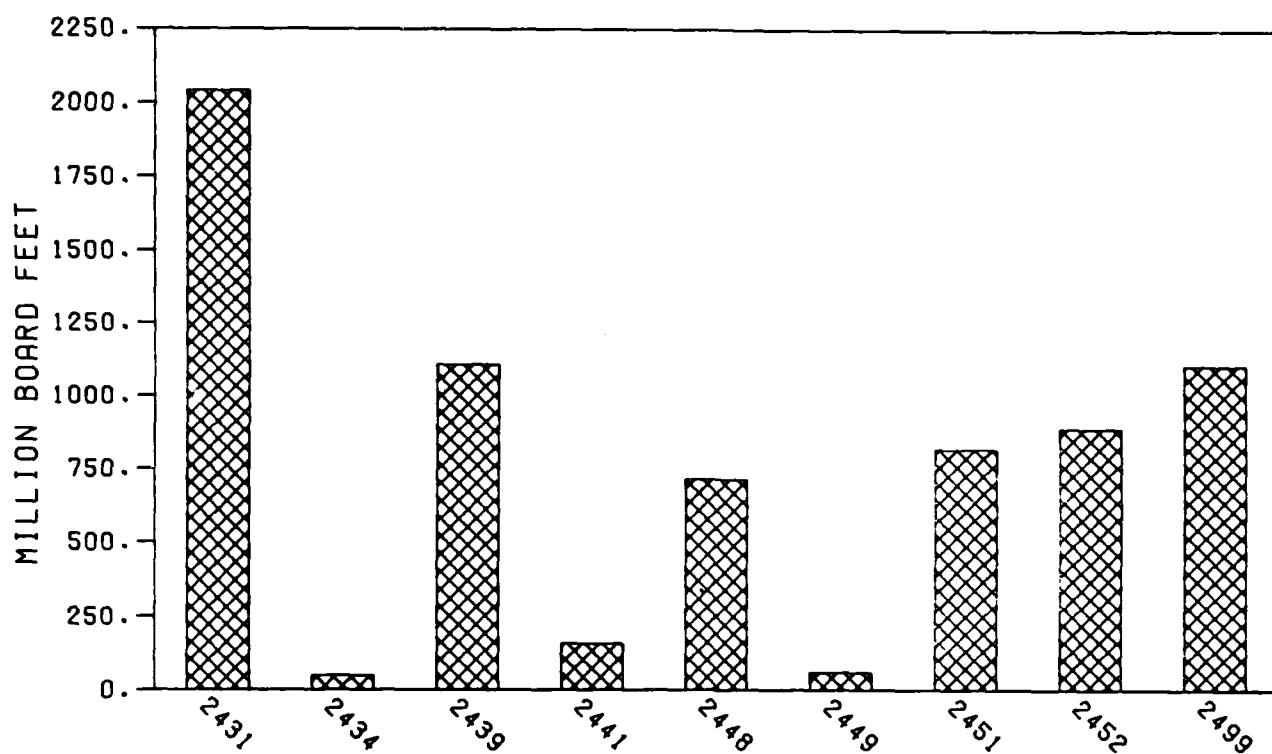


Figure 72.--Softwood lumber used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5072)

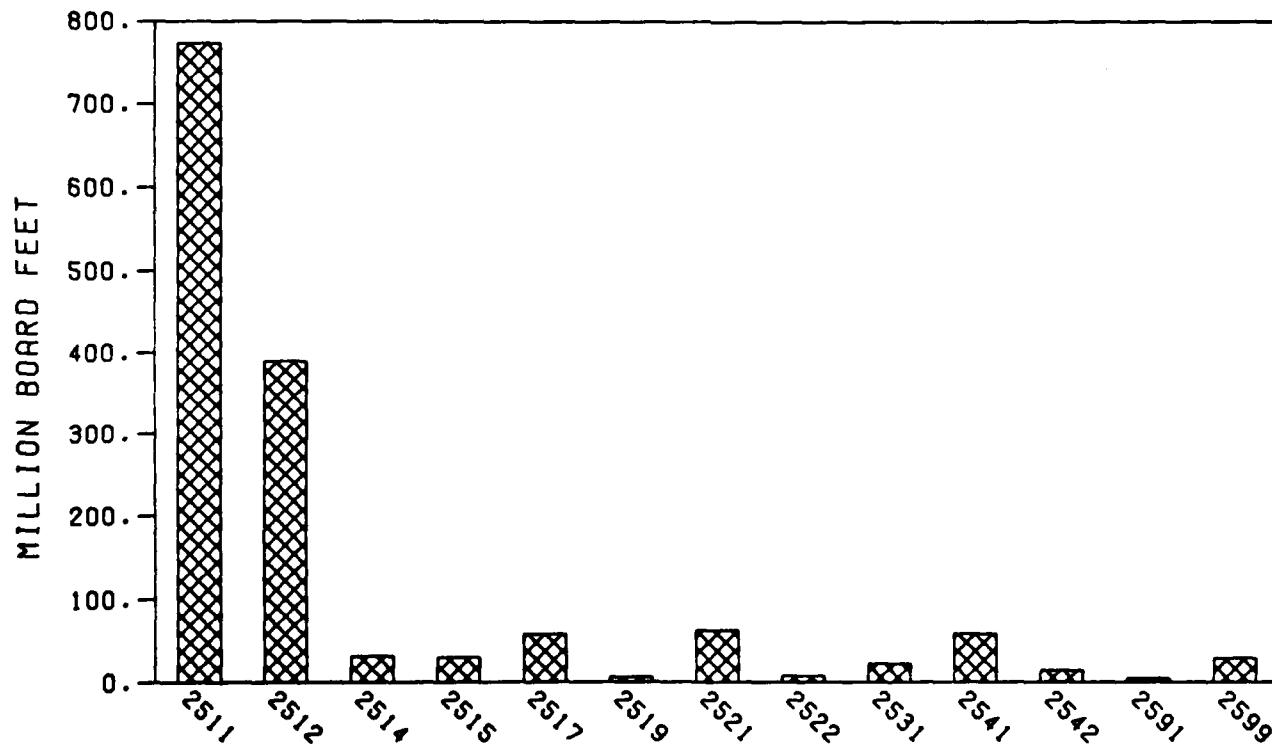


Figure 73.--Hardwood lumber used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5073)

### Wood Products Used by Manufacturing Industries (con.)

#### Lumber (con.)

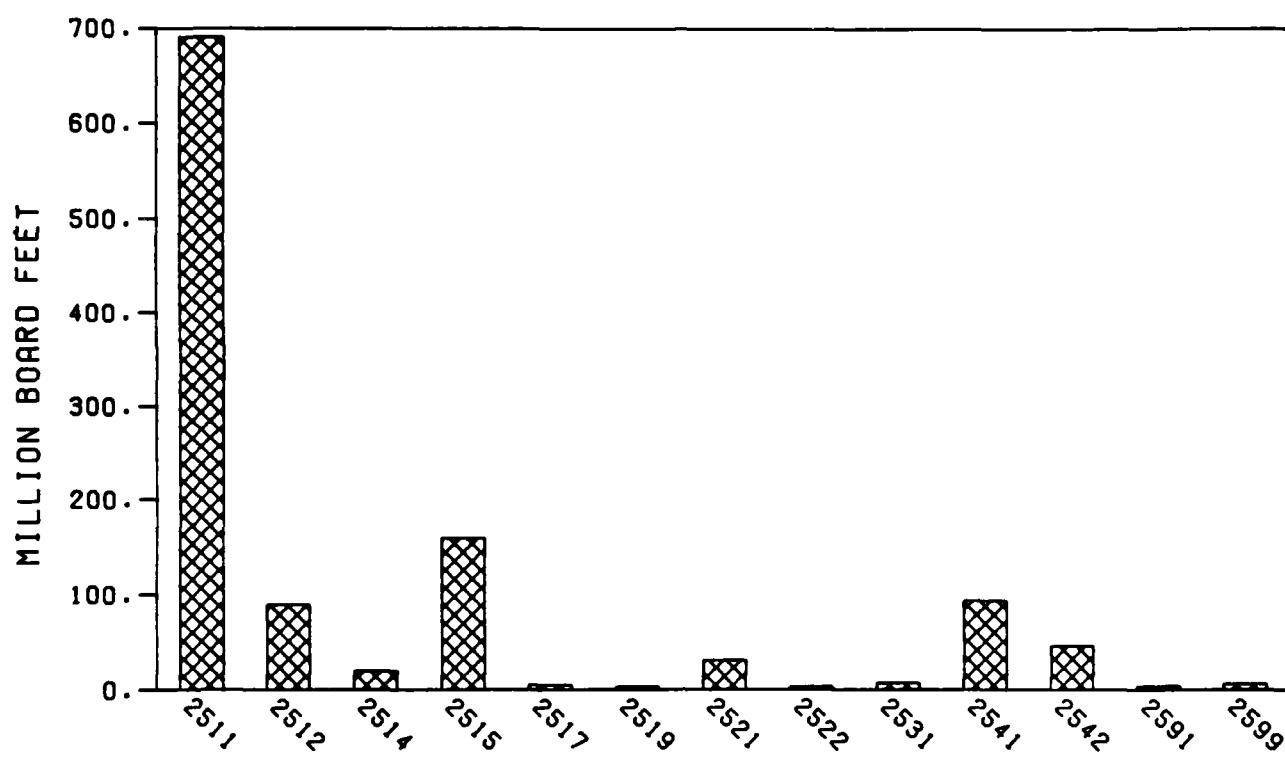


Figure 74.—Softwood lumber used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5074)

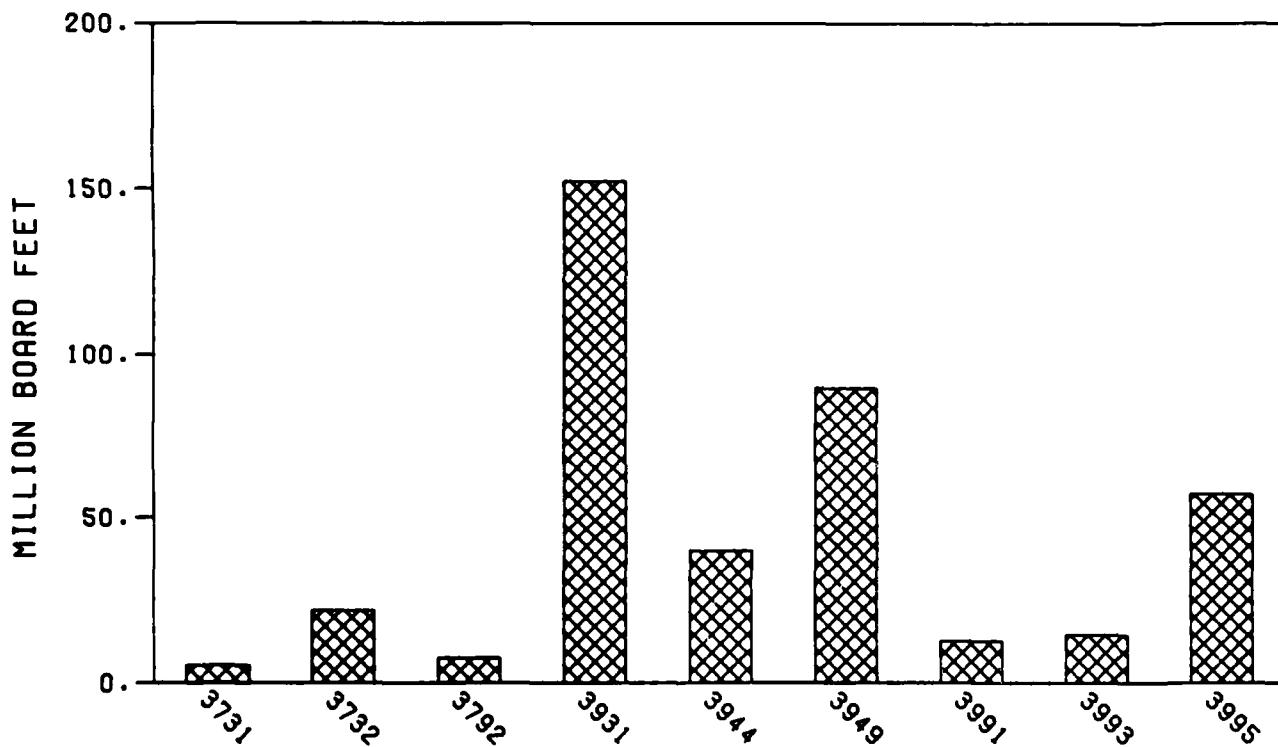


Figure 75.—Hardwood lumber used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5075)

### Wood Products Used by Manufacturing Industries (con.)

#### Lumber (con.)

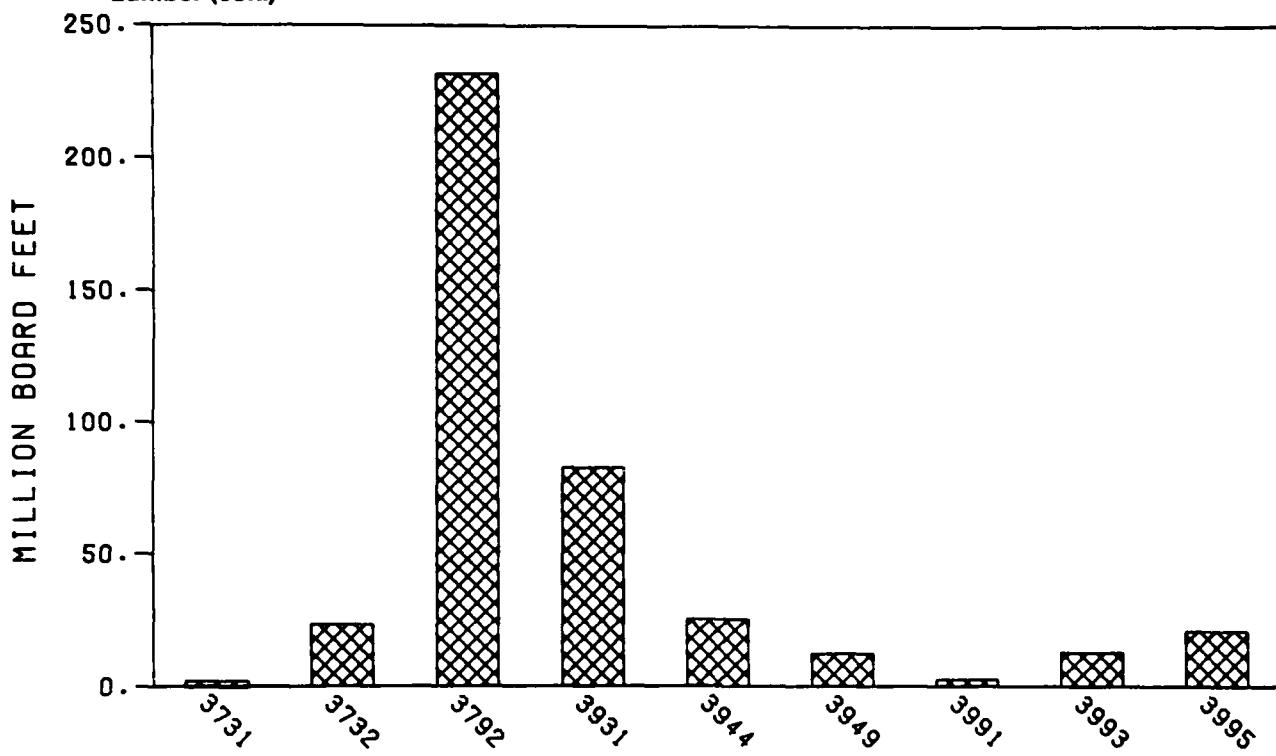


Figure 76.--Softwood lumber used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5076)

#### Plywood and Veneer

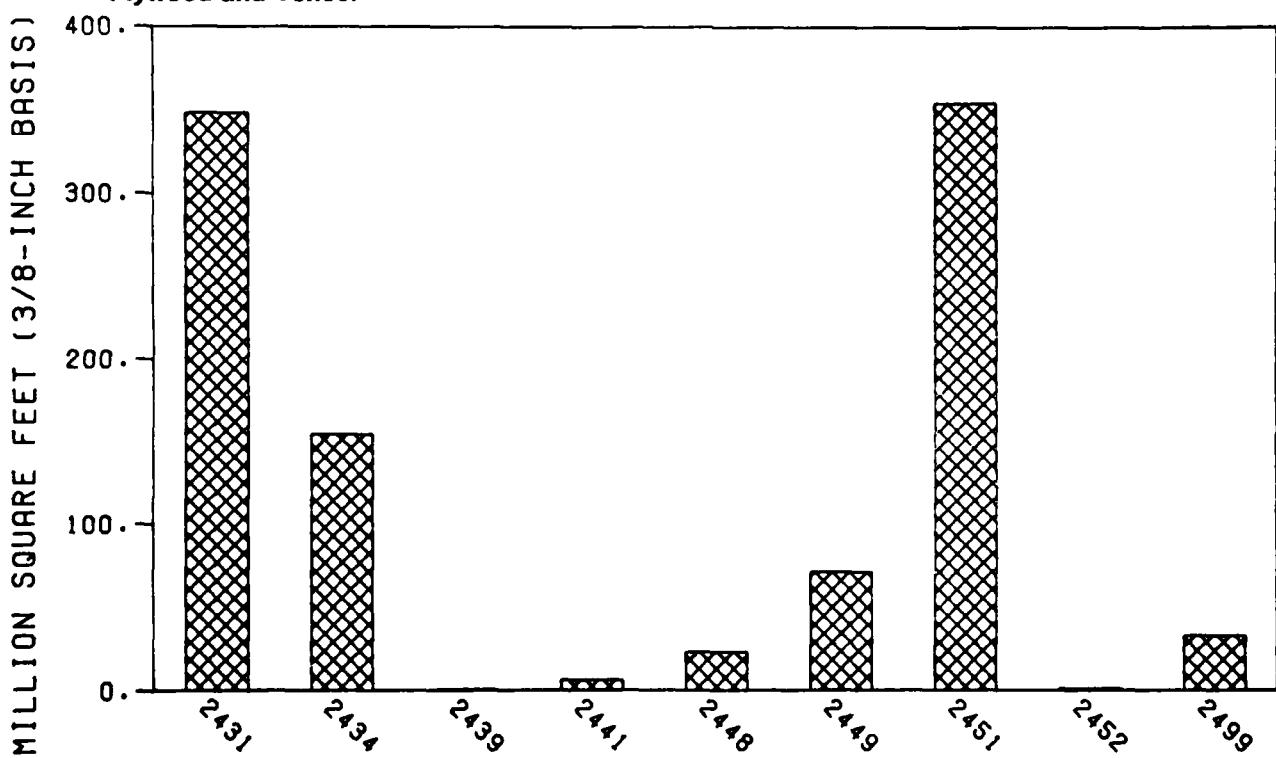


Figure 77.--Hardwood plywood and veneer used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5077)

### Wood Products Used by Manufacturing Industries (con.)

#### Plywood and Veneer (con.)

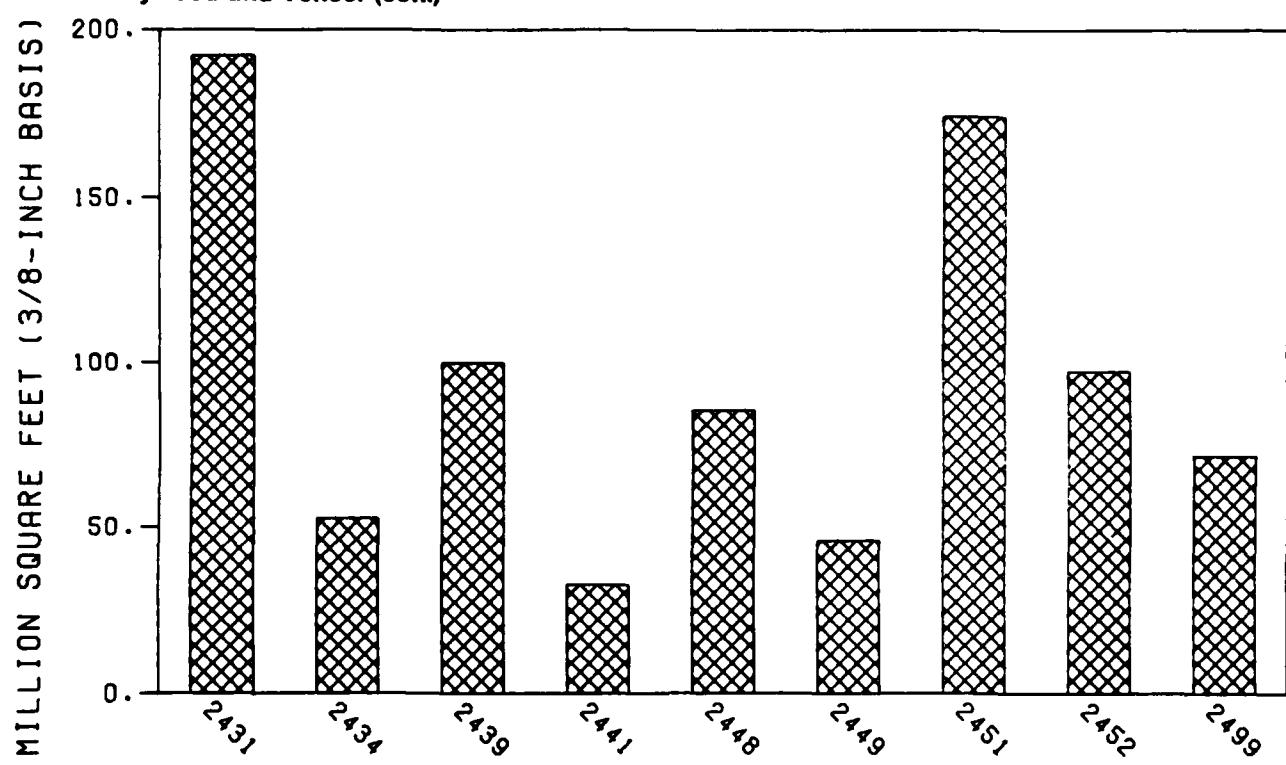


Figure 78.—Softwood plywood and veneer used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5078)

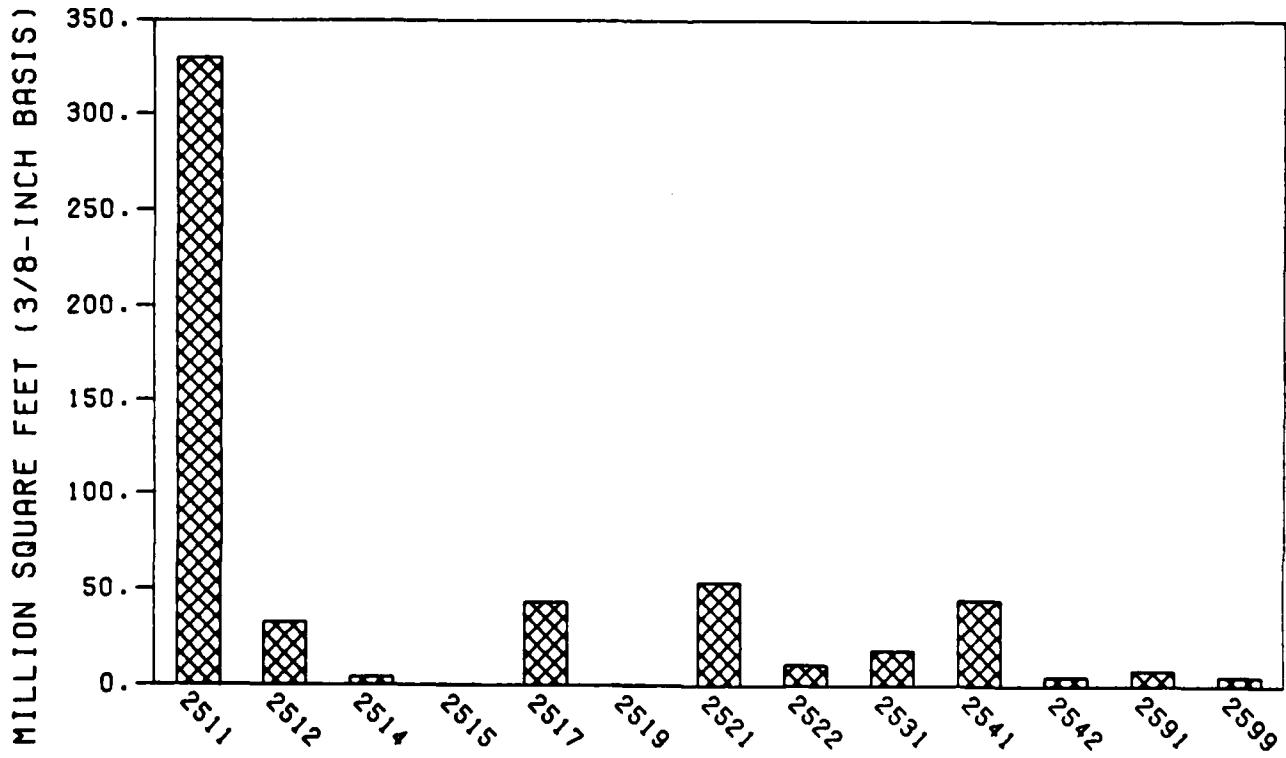


Figure 79.—Hardwood plywood and veneer used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5079)

### Wood Products Used by Manufacturing Industries (con.)

#### Plywood and Veneer (con.)

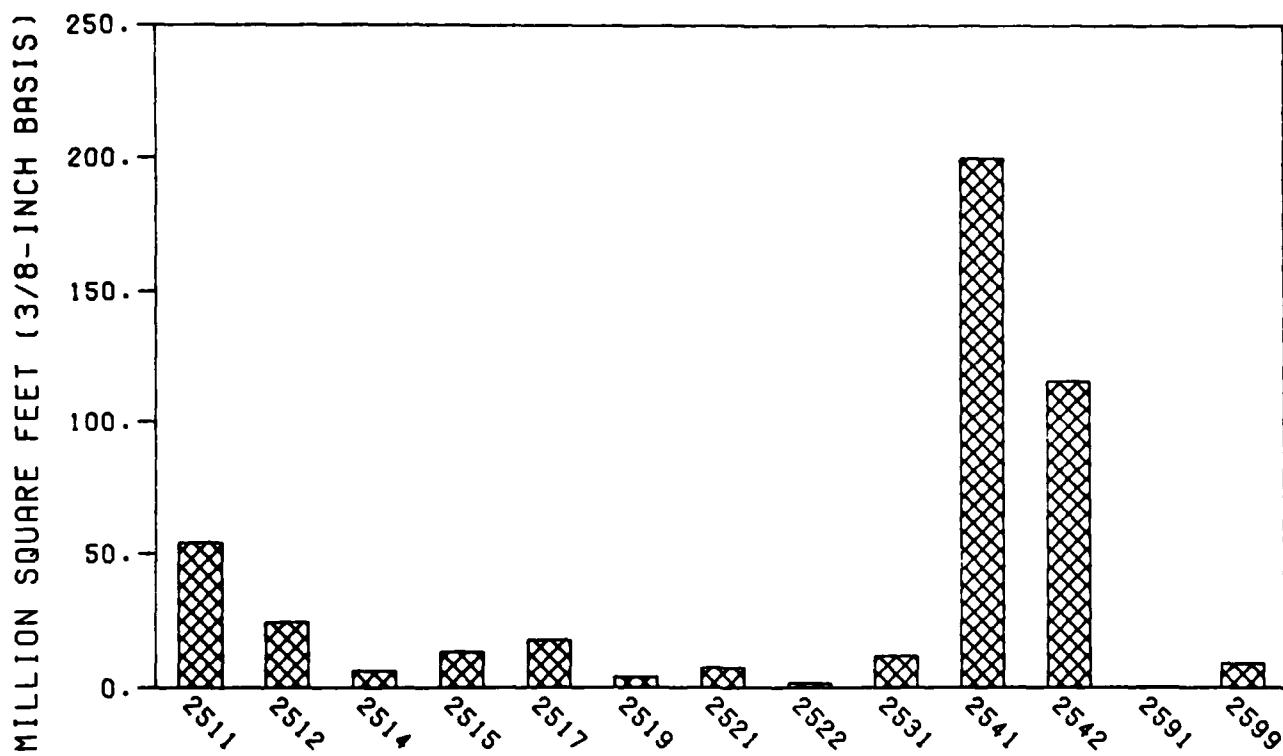


Figure 80.—Softwood plywood and veneer used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5080)

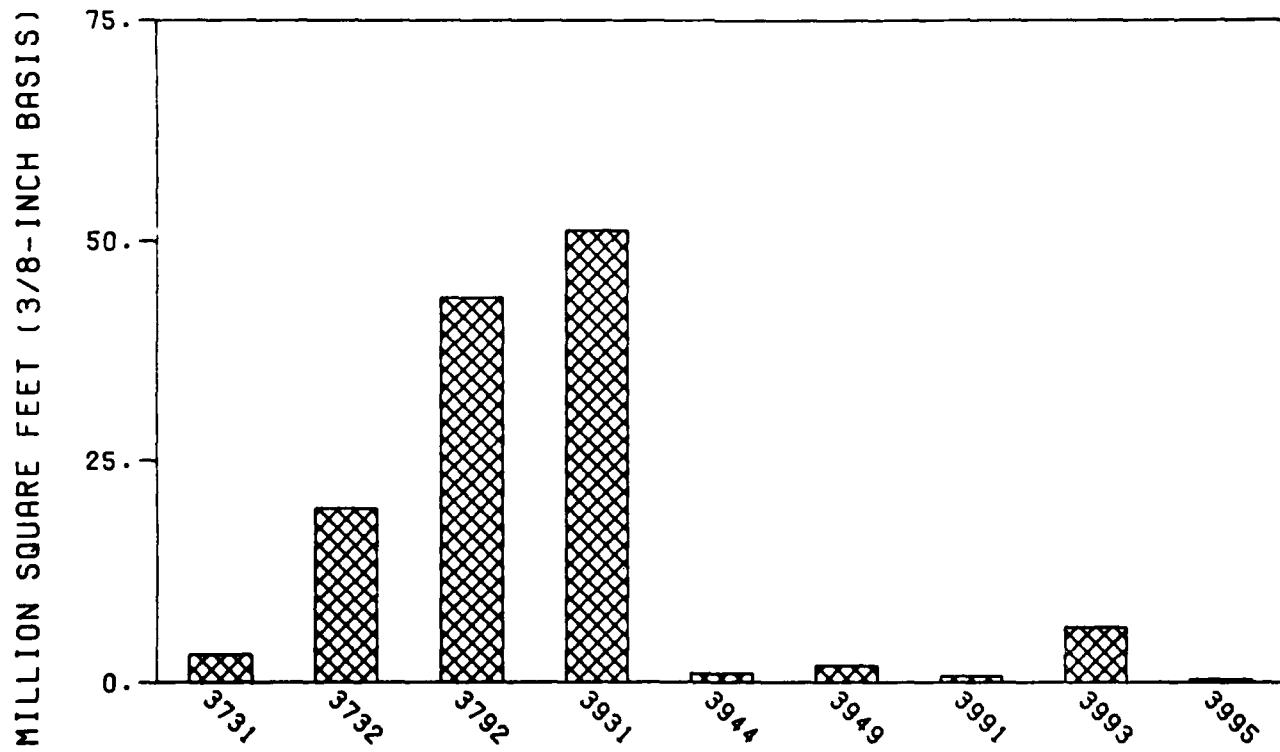


Figure 81.—Hardwood plywood and veneer used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5081)

### Wood Products Used by Manufacturing Industries (con.)

#### Hardboard (con.)

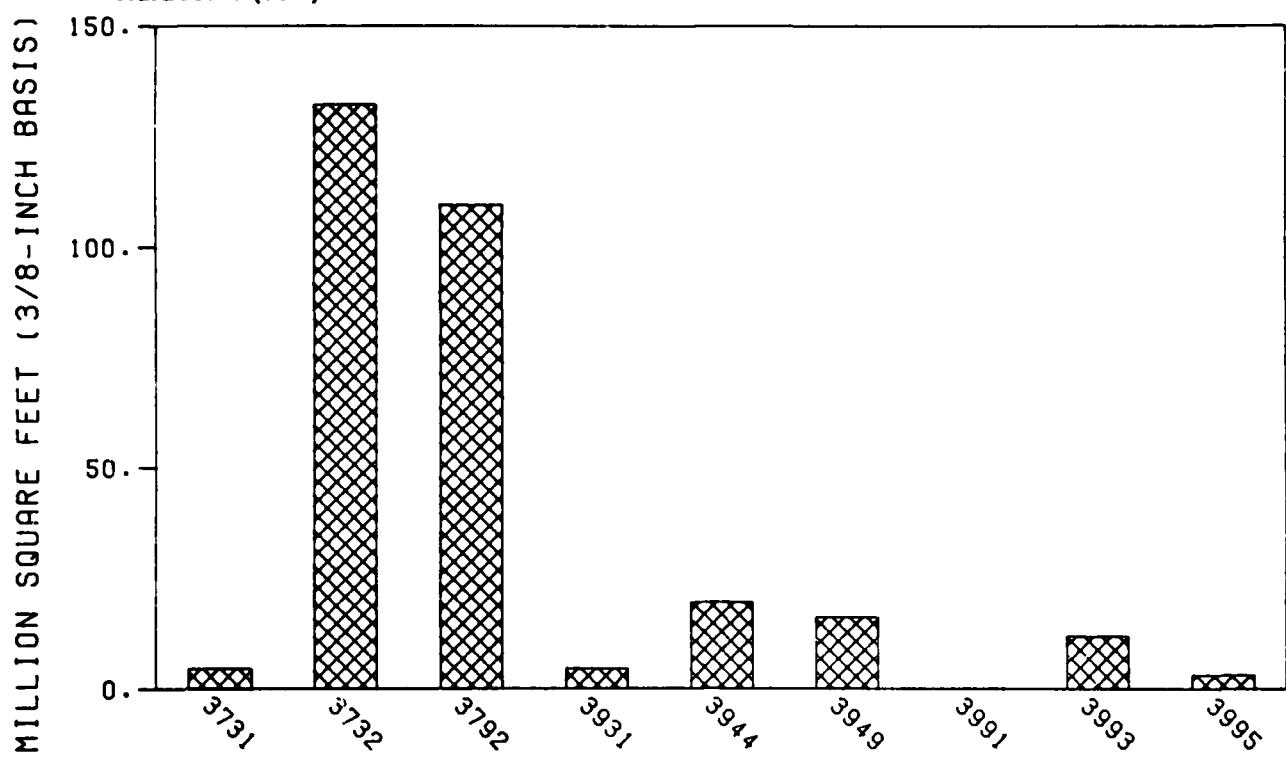


Figure 82. Softwood plywood and veneer used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5082)

#### Hardboard

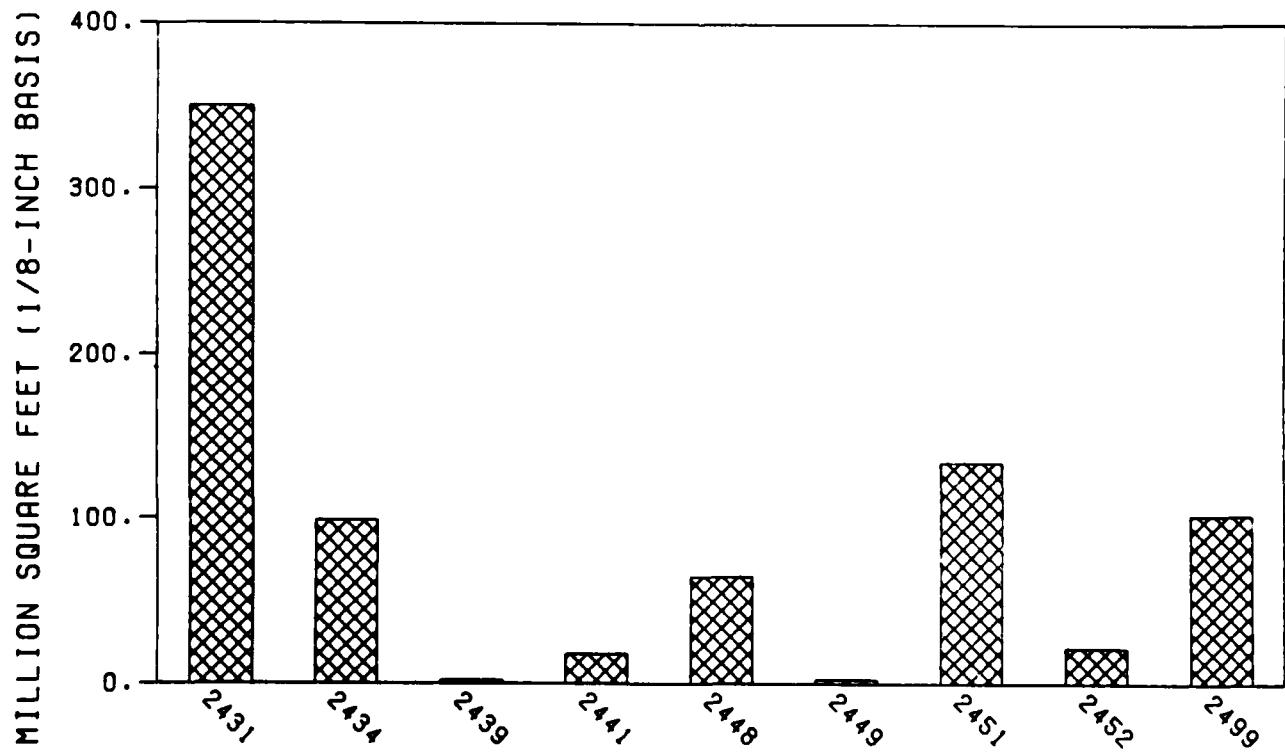


Figure 83.--Hardboard used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5083)

### Wood Products Used by Manufacturing Industries (con.)

#### Hardboard (con.)

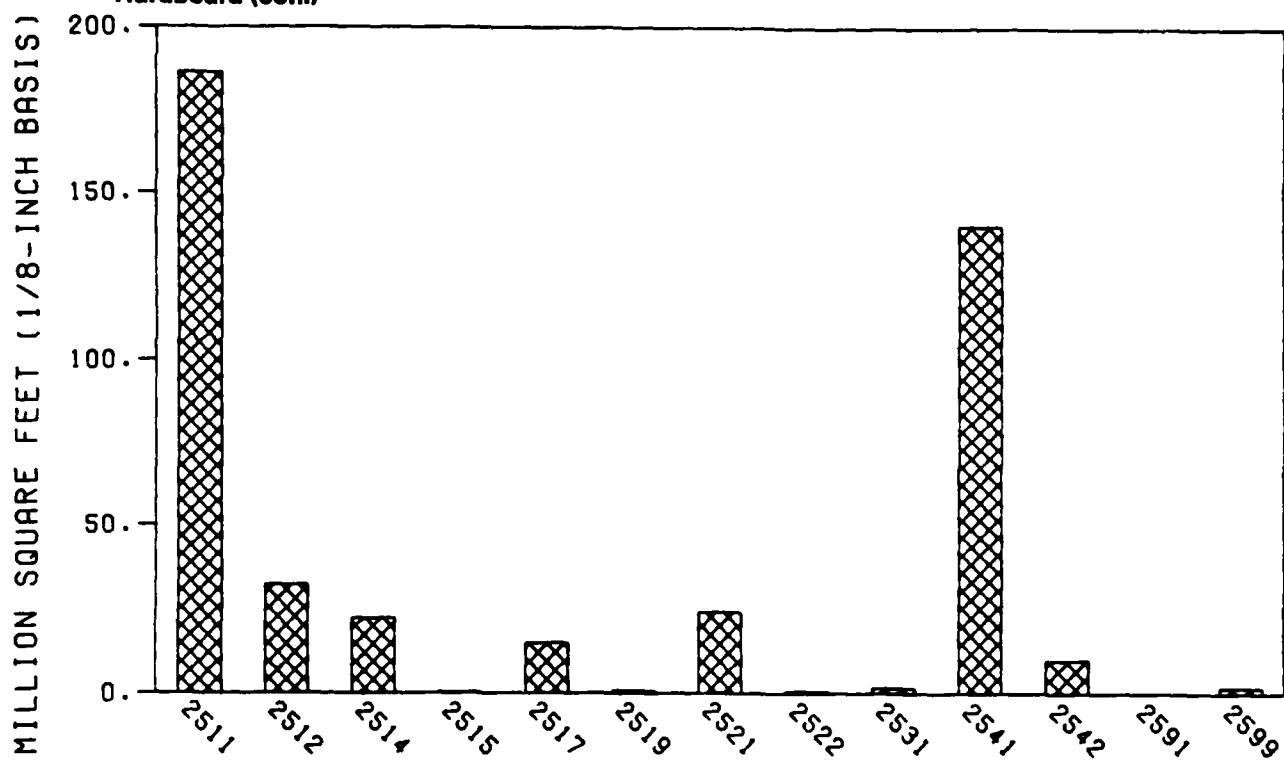


Figure 84.—Hardboard used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5084)

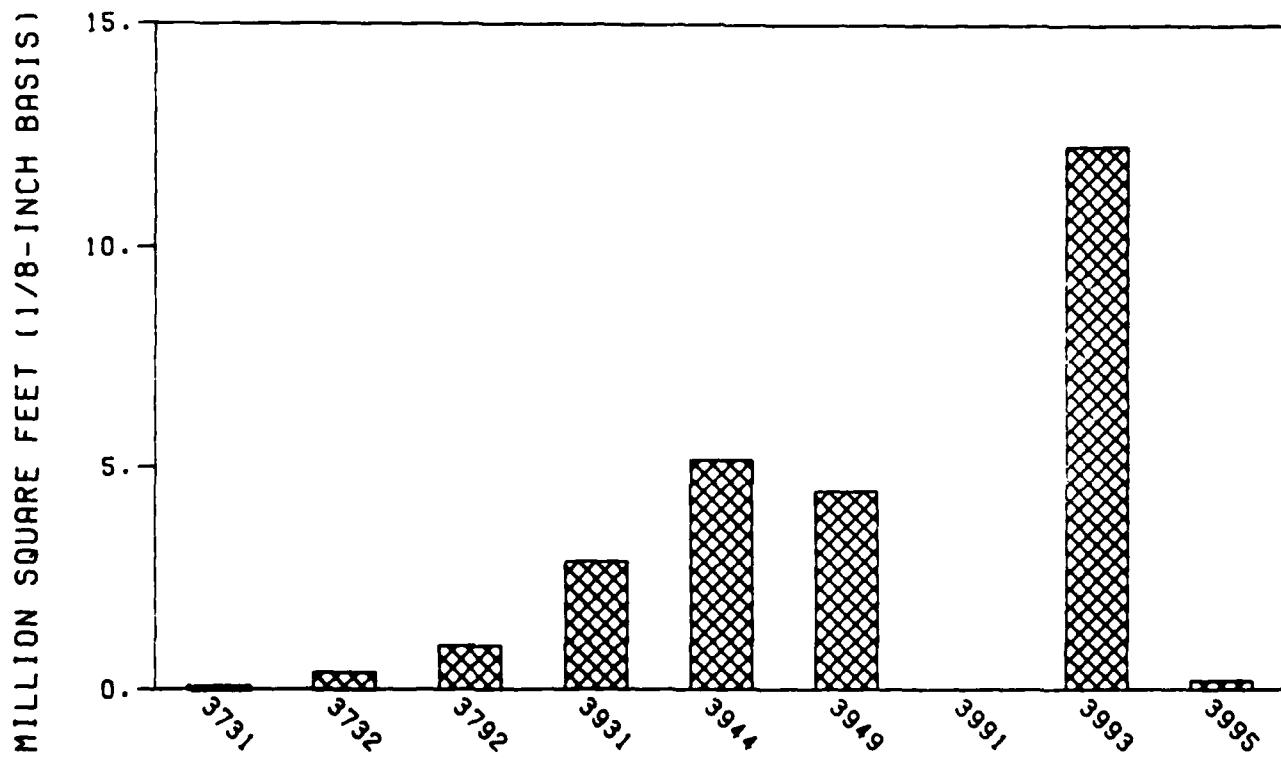


Figure 85.—Hardboard used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5085)

### Wood Products Used by Manufacturing Industries (con.)

#### Insulation Board

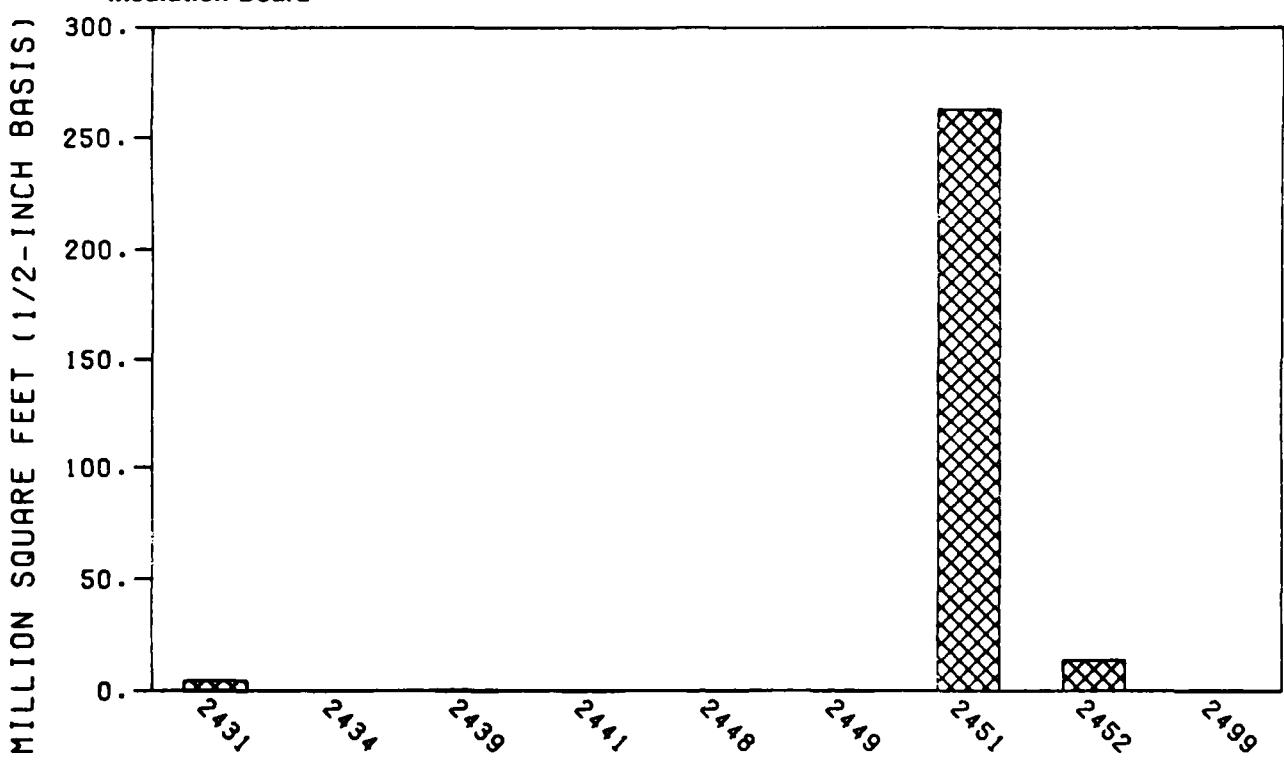


Figure 86.--Insulation board used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5086)

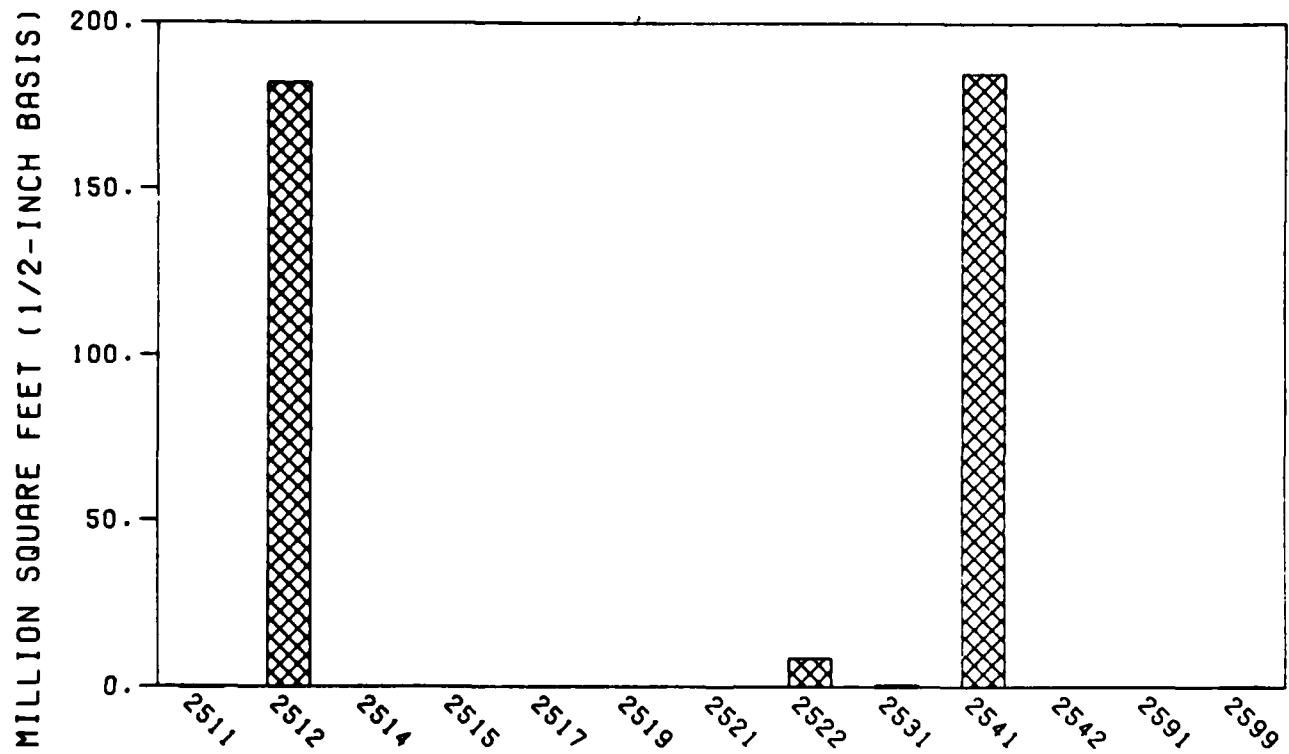


Figure 87.--Insulation board used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5087)

## Wood Products Used by Manufacturing Industries (con.)

### Insulation Board (con.)

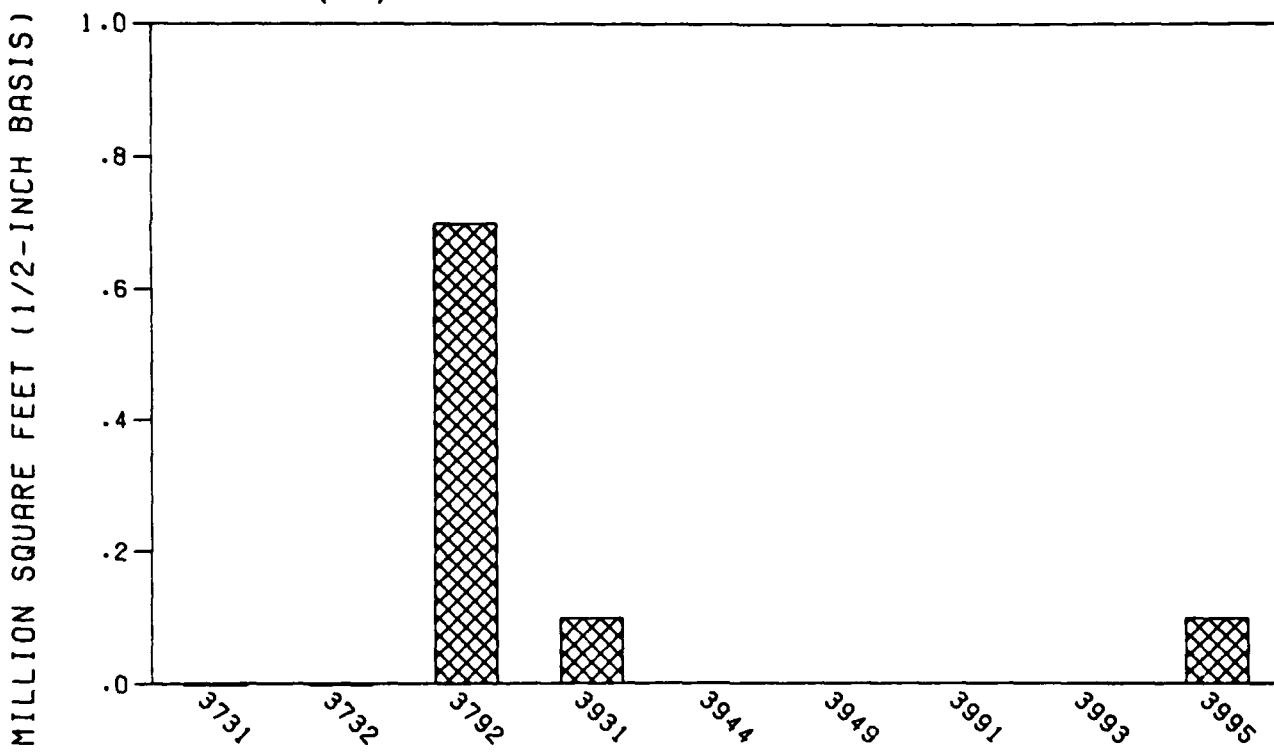


Figure 88.--Insulation board used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5088)

### Particleboard and Medium-Density Fiberboard

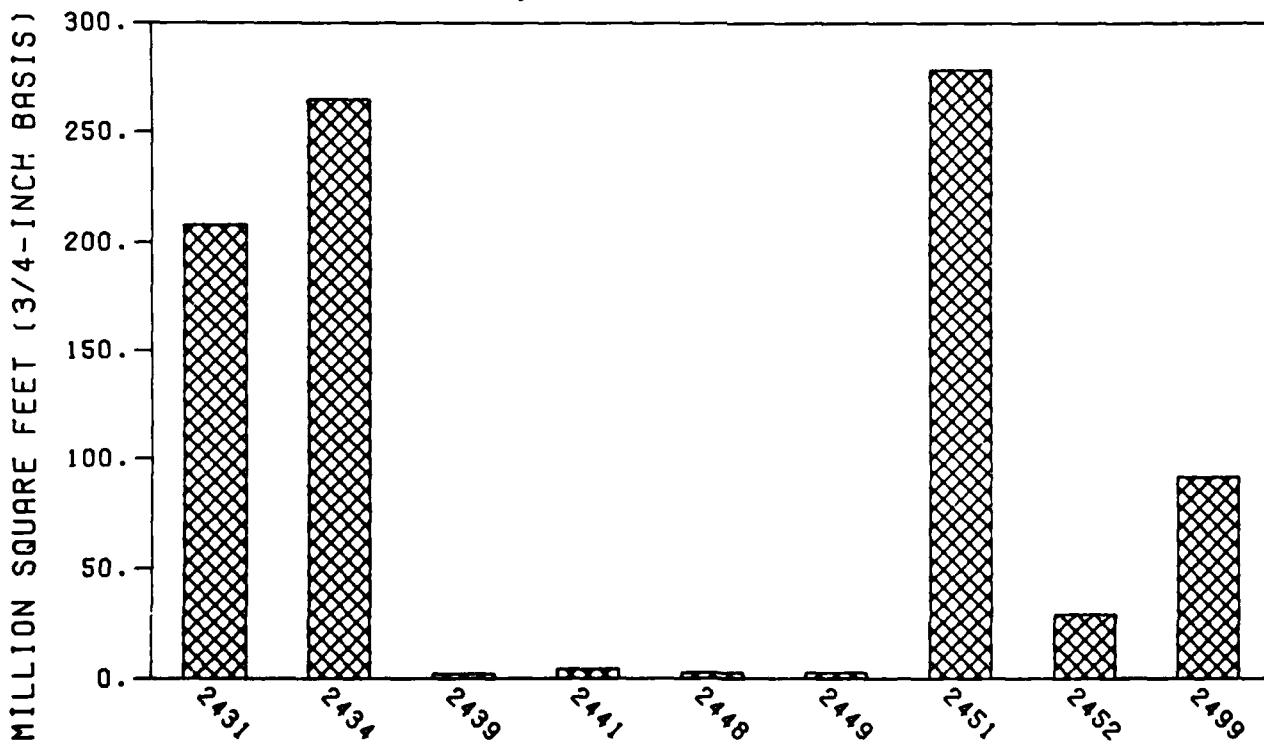


Figure 89.--Particleboard and medium-density fiberboard used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5089)

### Wood Products Used by Manufacturing Industries (con.)

#### Particleboard and Medium-Density Fiberboard (con.)

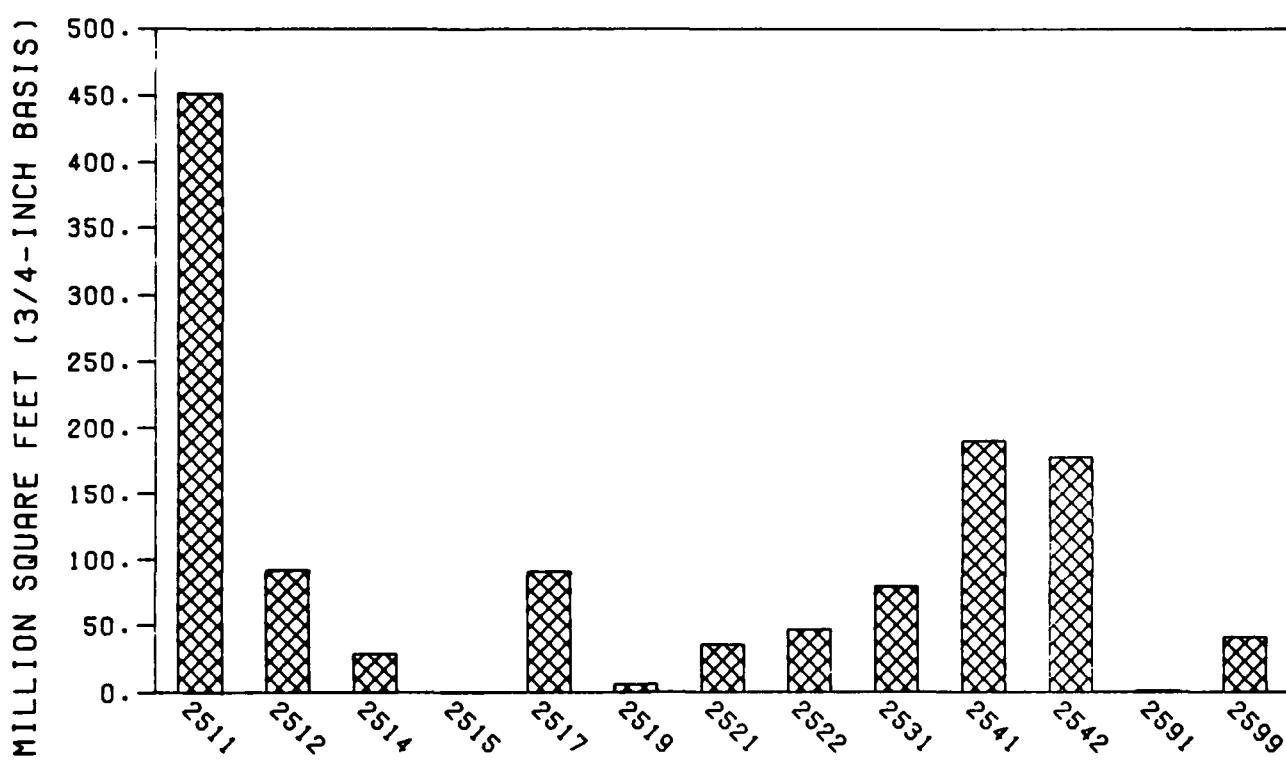


Figure 90.--Particleboard and medium-density fiberboard used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5090)

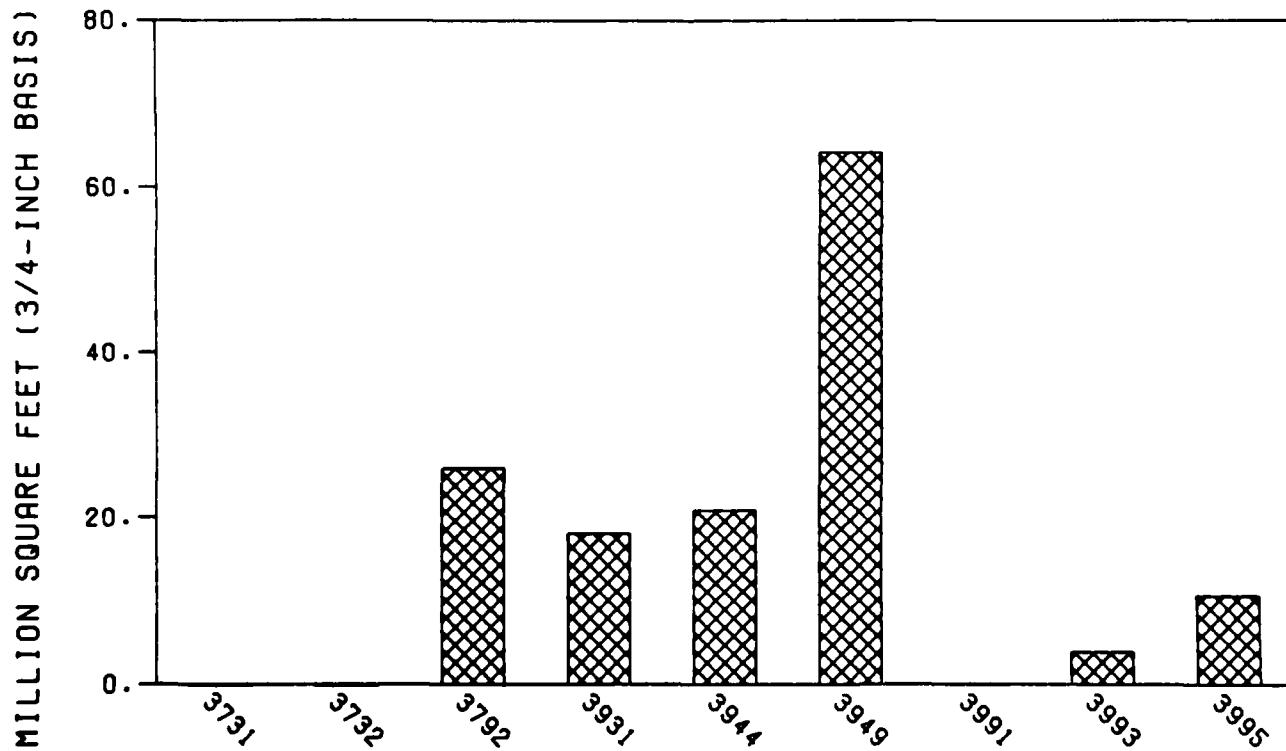


Figure 91.--Particleboard and medium-density fiberboard used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5091)

**Paper, Paperboard, and Newsprint**

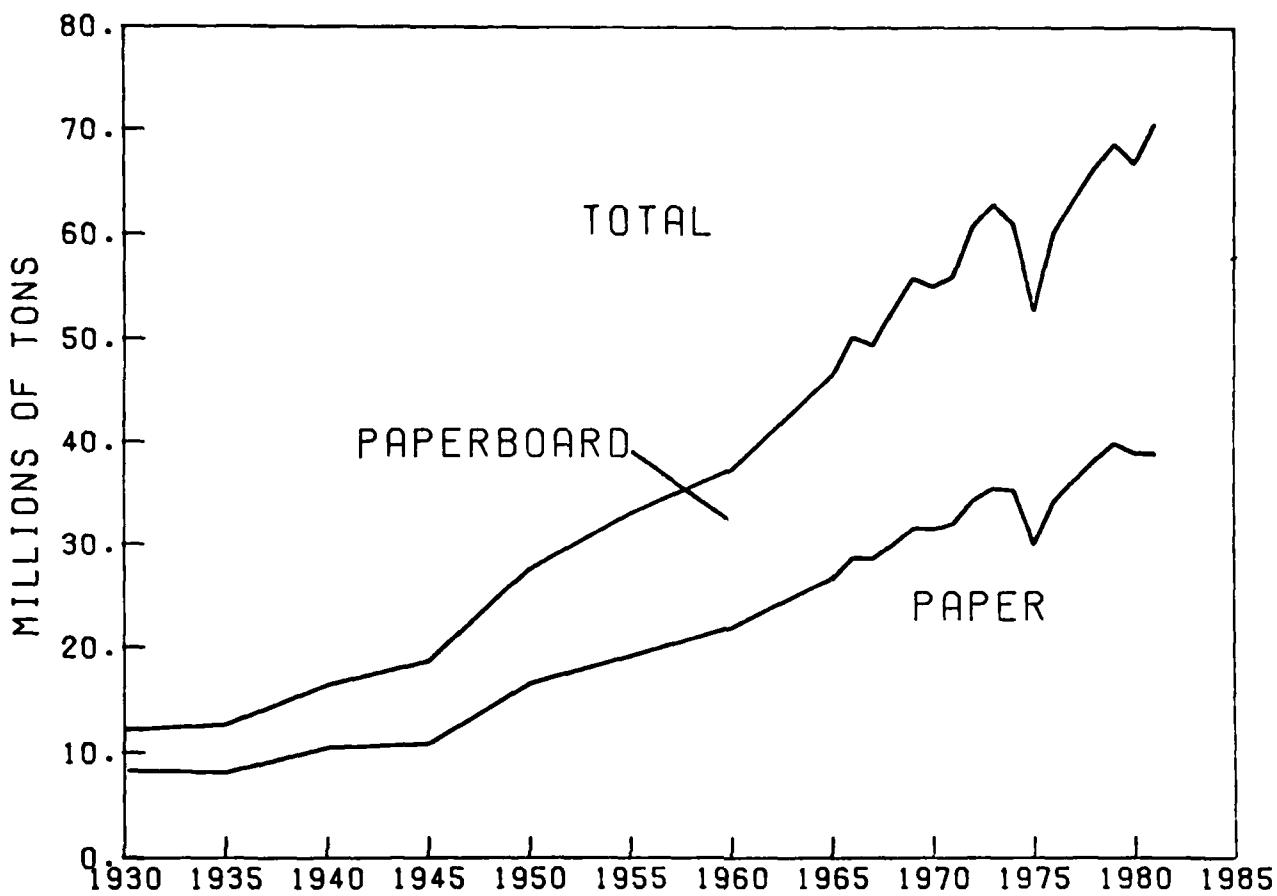


Figure 92.--Paper and paperboard consumption in the United States, 1930-1981.(ML84 5092)

**Paper, Paperboard, and Newsprint (con.)**

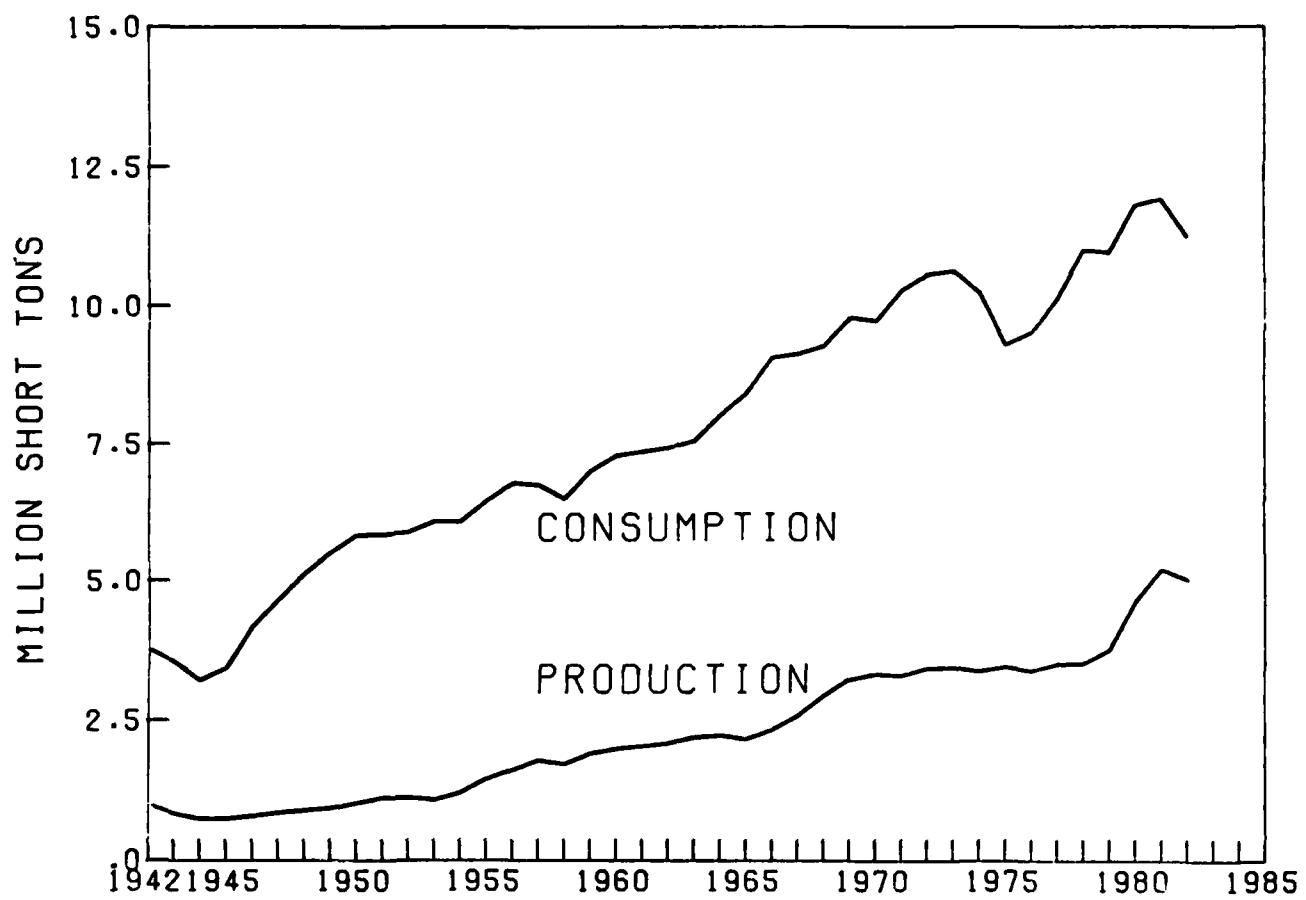
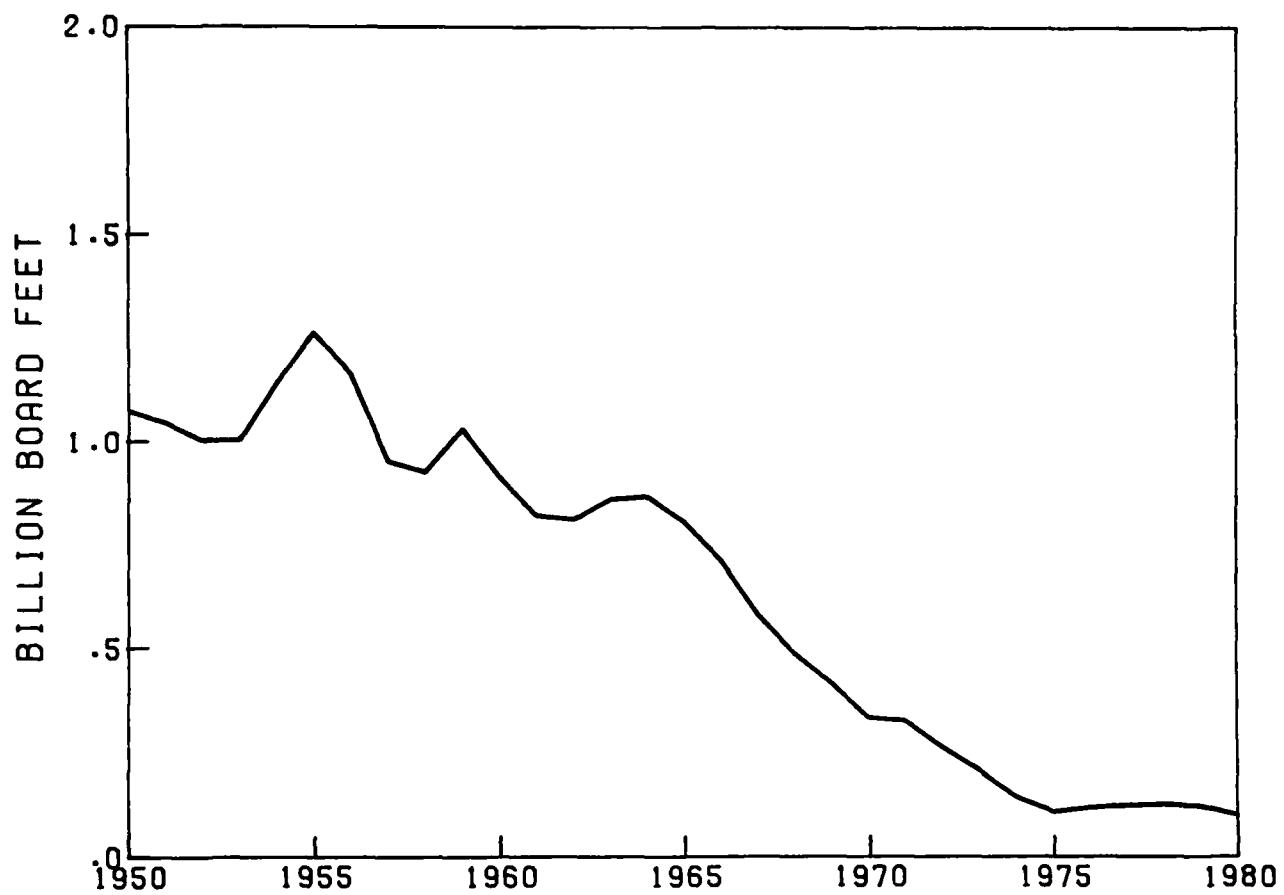


Figure 93.—Newsprint production and consumption in the United States, 1942-1982.  
(ML84 5093)

### ***Miscellaneous Wood Products Consumption***



*Figure 94.-Hardwood flooring production in the United States, 1950-1980.(ML84-5094)*

**Miscellaneous Wood Products Consumption (con.)**

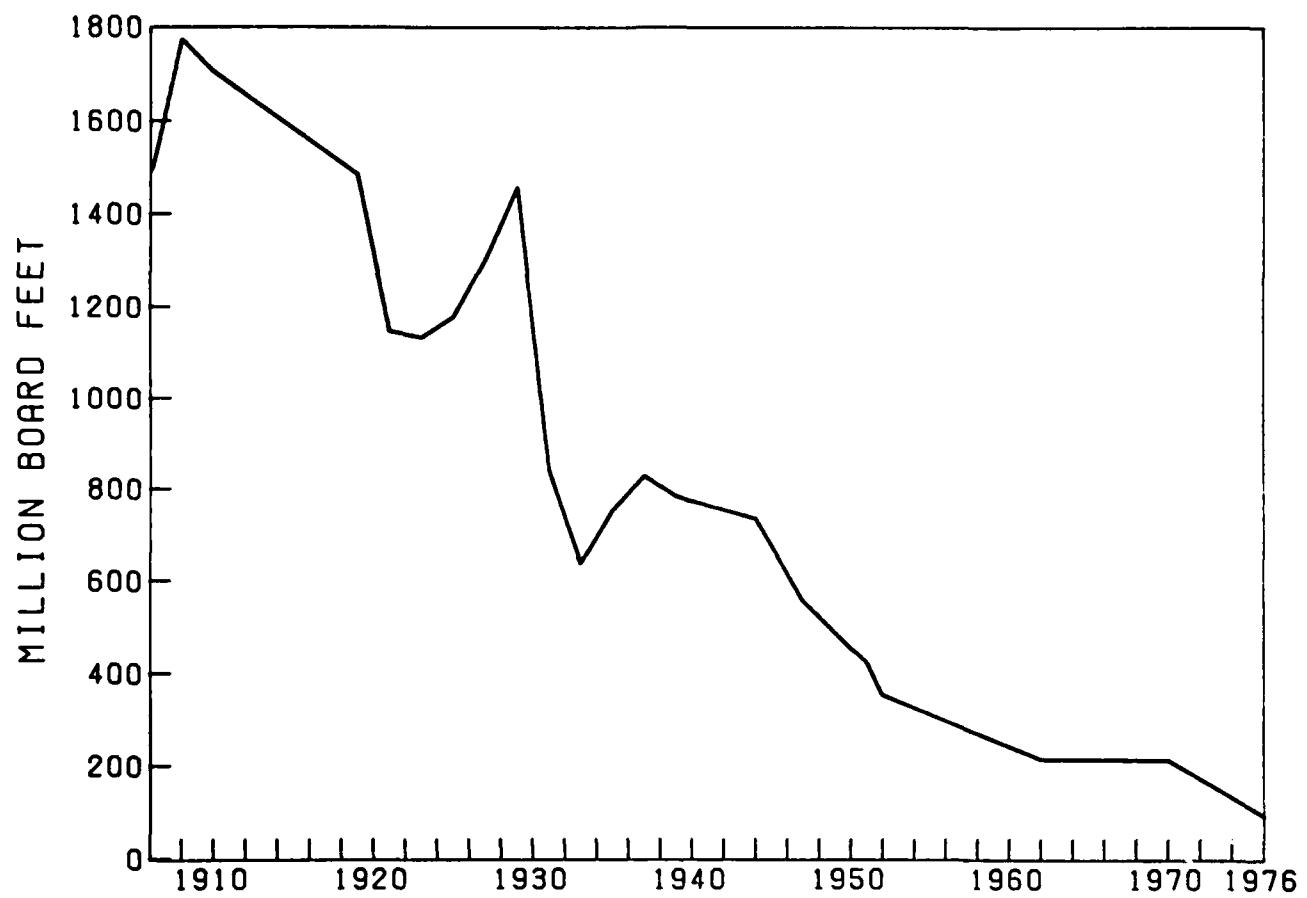


Figure 95.—Cooperage consumption in the United States, 1906-1976. (ML84 5095)

**Miscellaneous Wood Products Consumption (con.)**

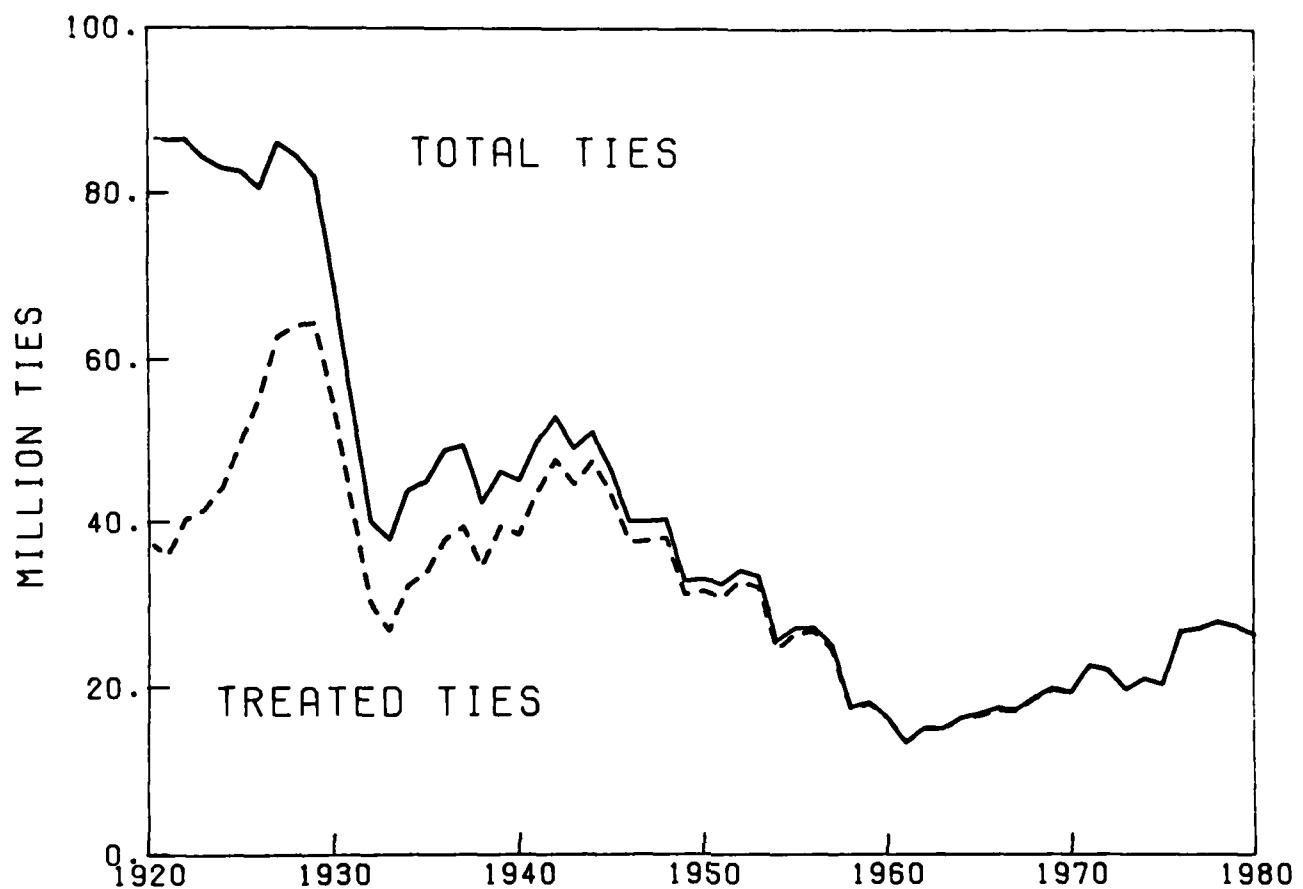


Figure 96.--Cumulative crosstie consumption in the United States, 1920-1980. (ML84 5096)

**Miscellaneous Wood Products Consumption (con.)**

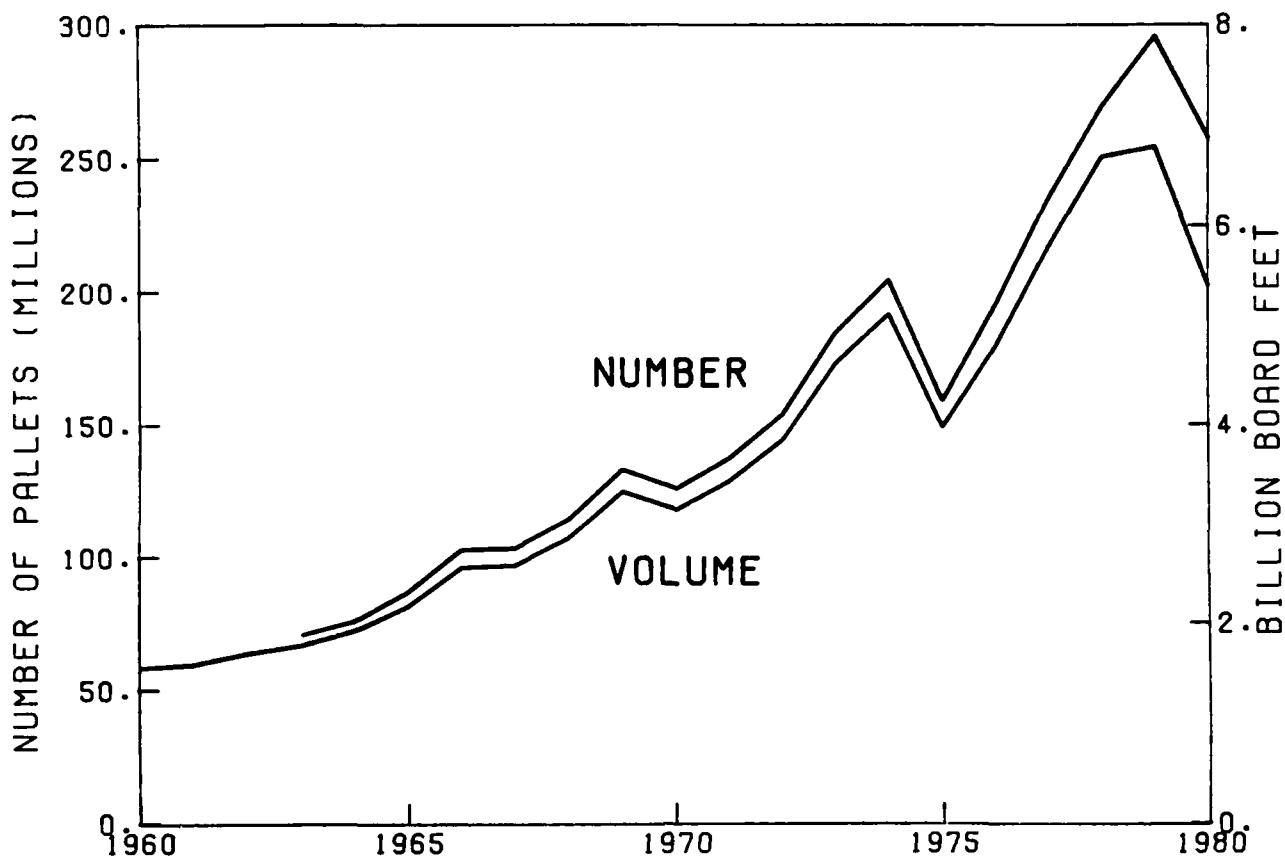


Figure 97.--Pallet production and lumber used for pallets in the United States, 1960-1980.  
(ML84 5097)

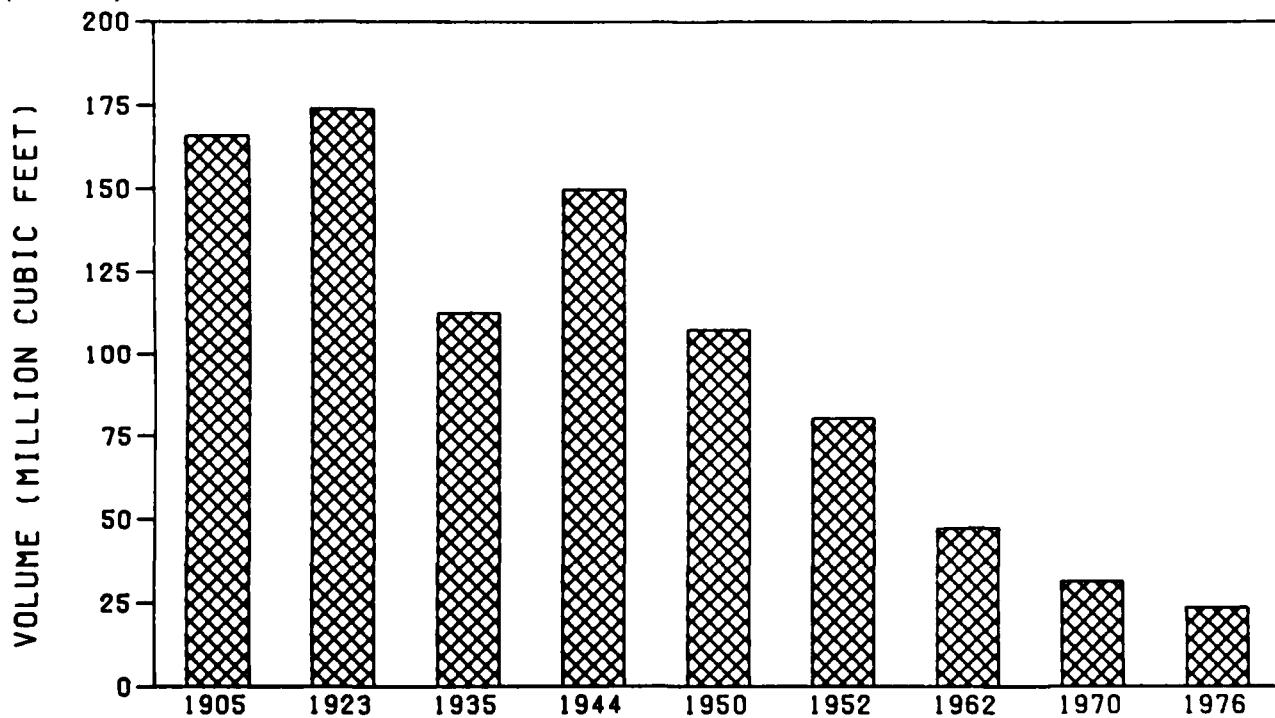


Figure 98.--Mine timbers consumed in the United States, selected years, 1905-1976.  
(ML84 5098)

### Miscellaneous Wood Products Consumption (con.)

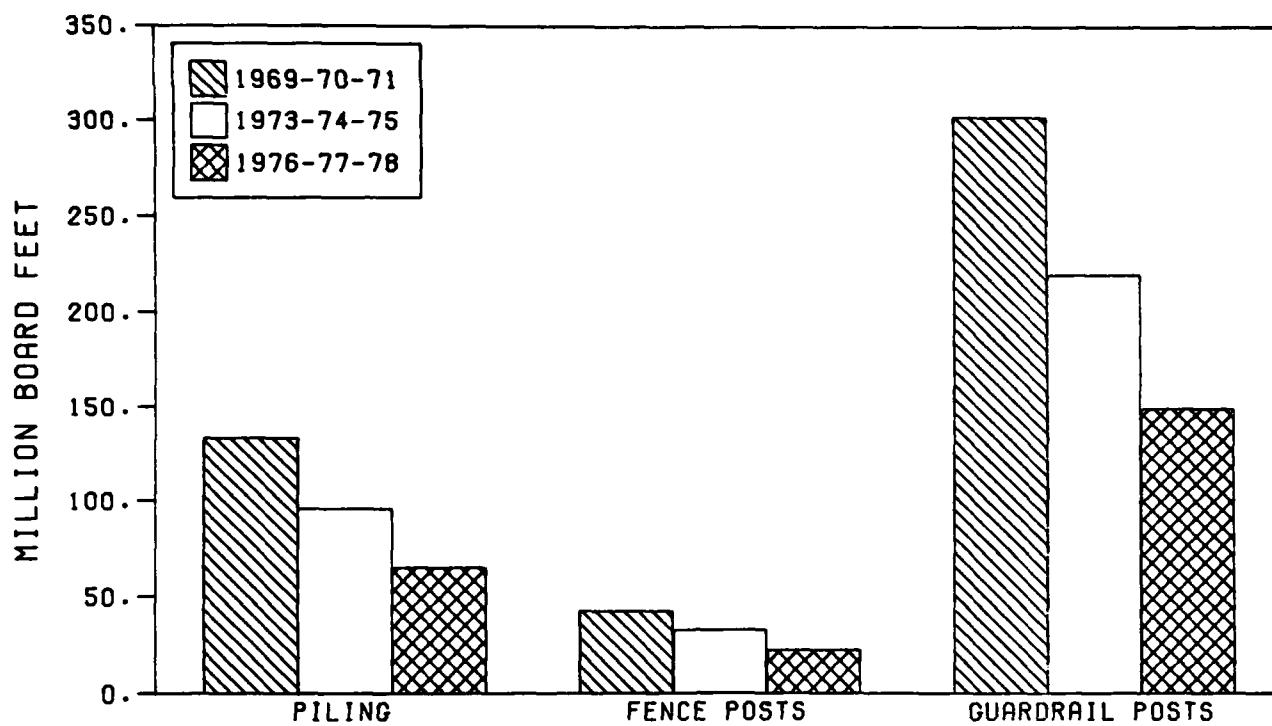


Figure 99.—Post and piling use in highway construction in the United States (3-year averages), 1969-1978. (ML84 5099)

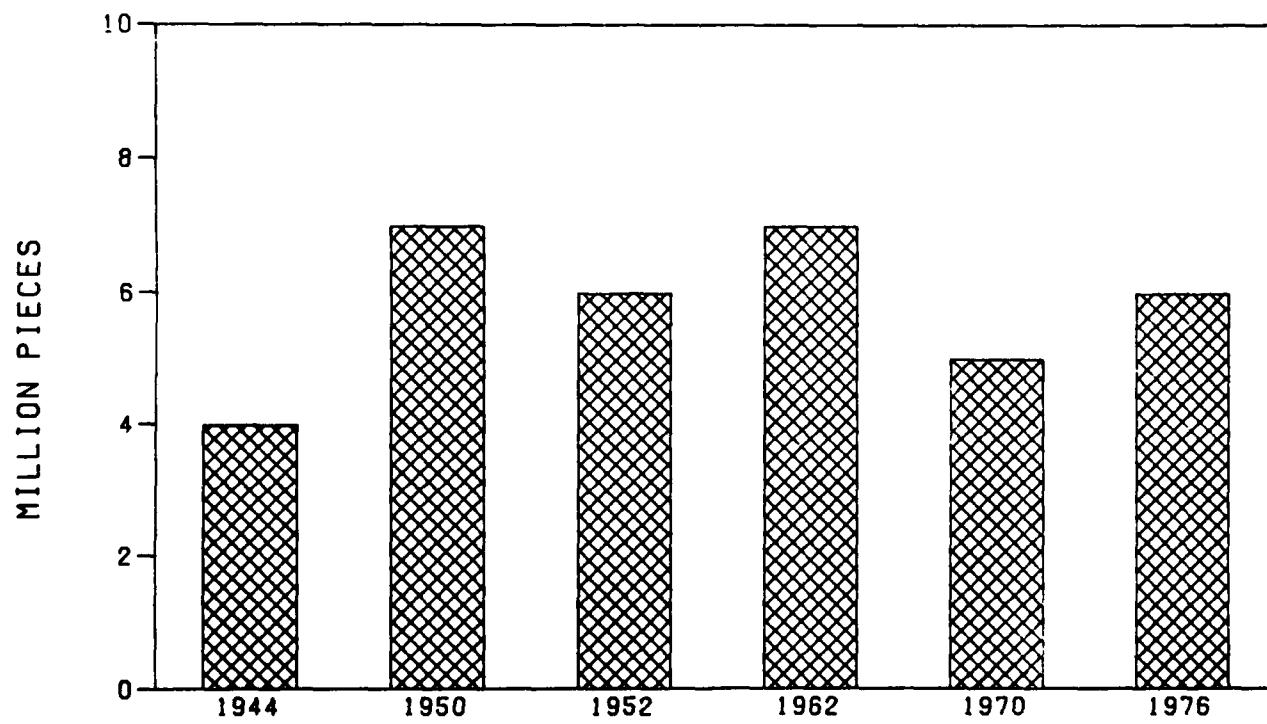


Figure 100.—Pole consumption in the United States, selected years, 1944-1976. (ML84 5100)

### Miscellaneous Wood Products Consumption (con.)

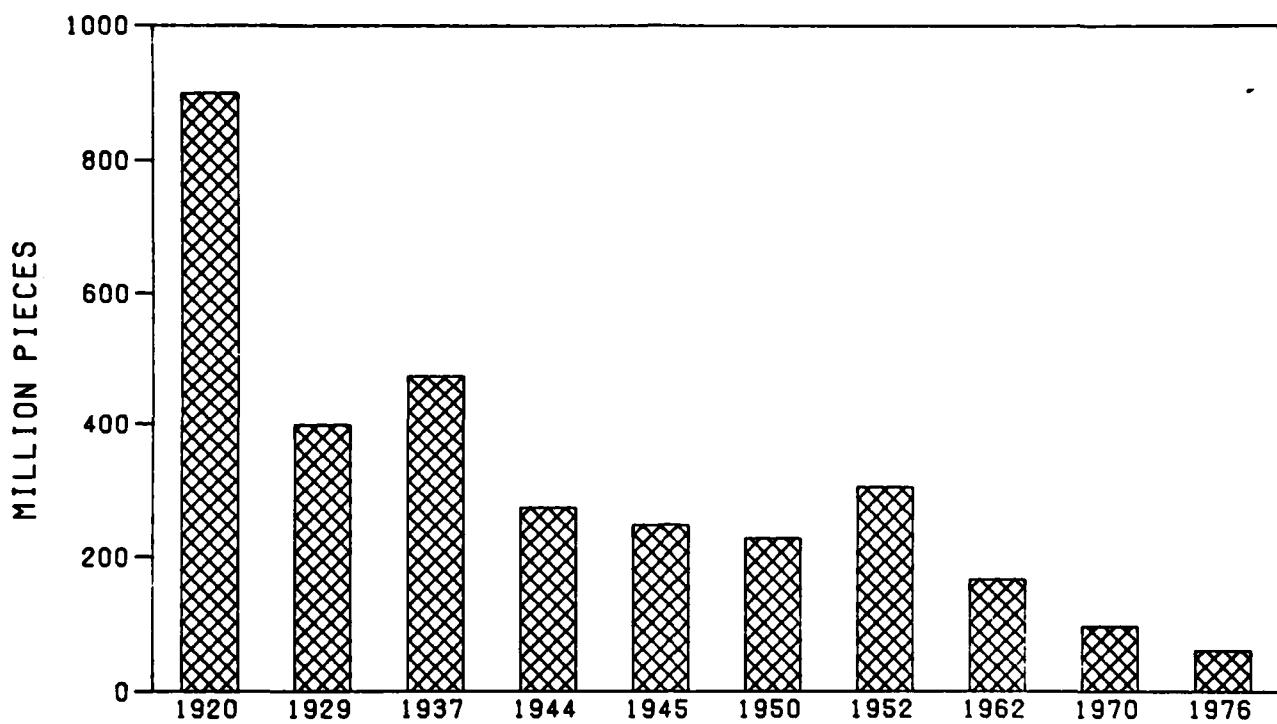


Figure 101.--Fencepost consumption in the United States, selected years, 1920-1976.  
(ML84 5101)

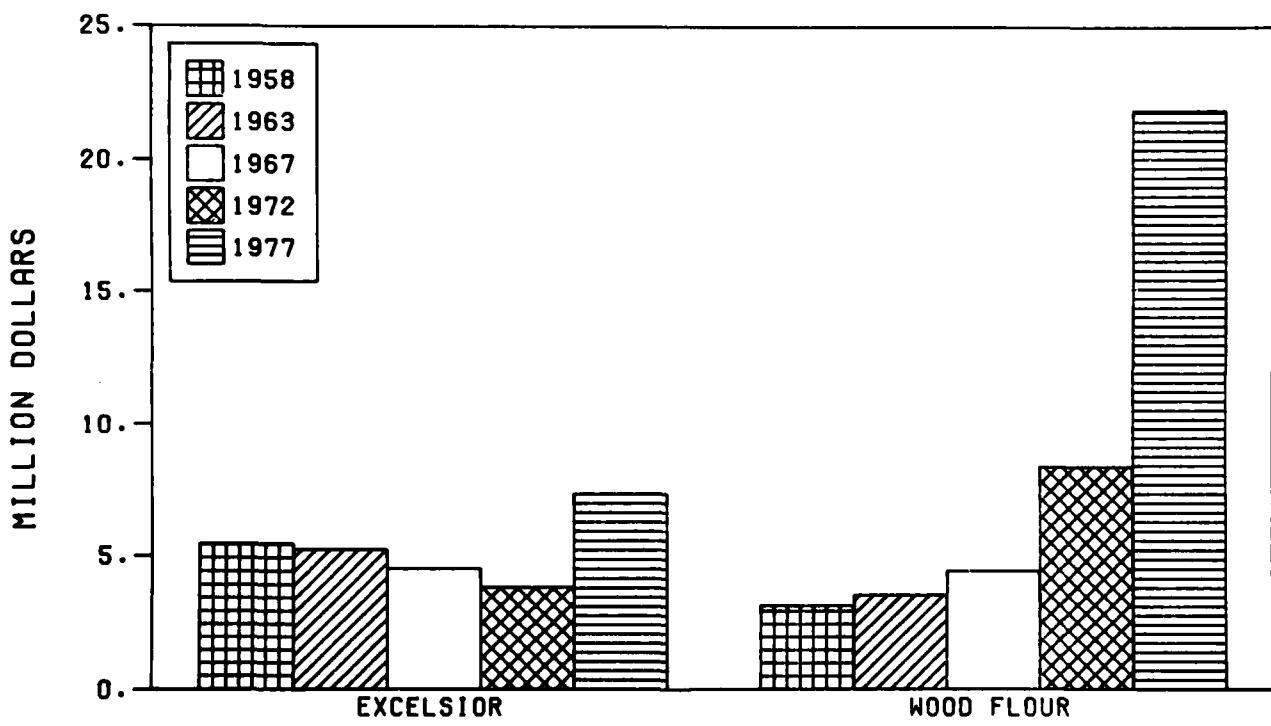


Figure 102.--Value of shipments of excelsior and wood flour, selected years, 1958-1977.  
(84 5102)

### Wood Products Used in Mobile Homes

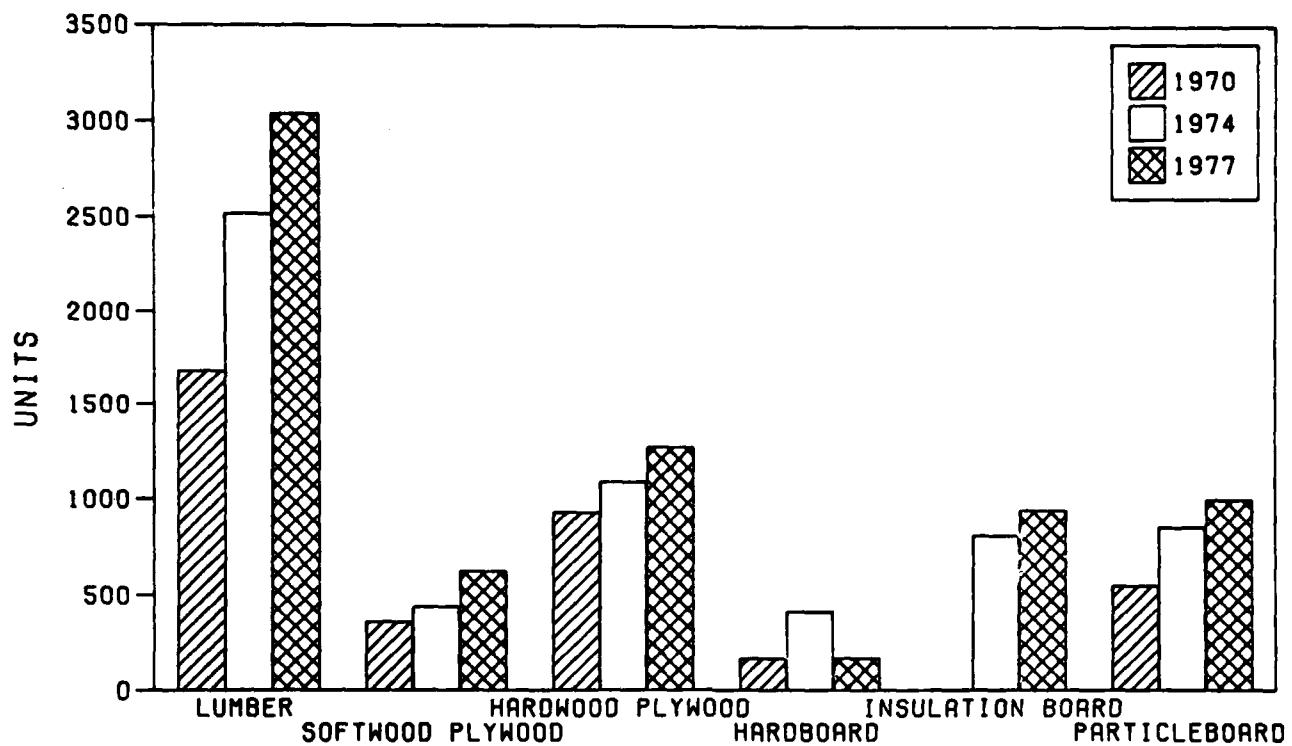


Figure 103.--Average amounts of wood products used per mobile home unit in the United States, 1970, 1974, and 1977. (ML84 5103)

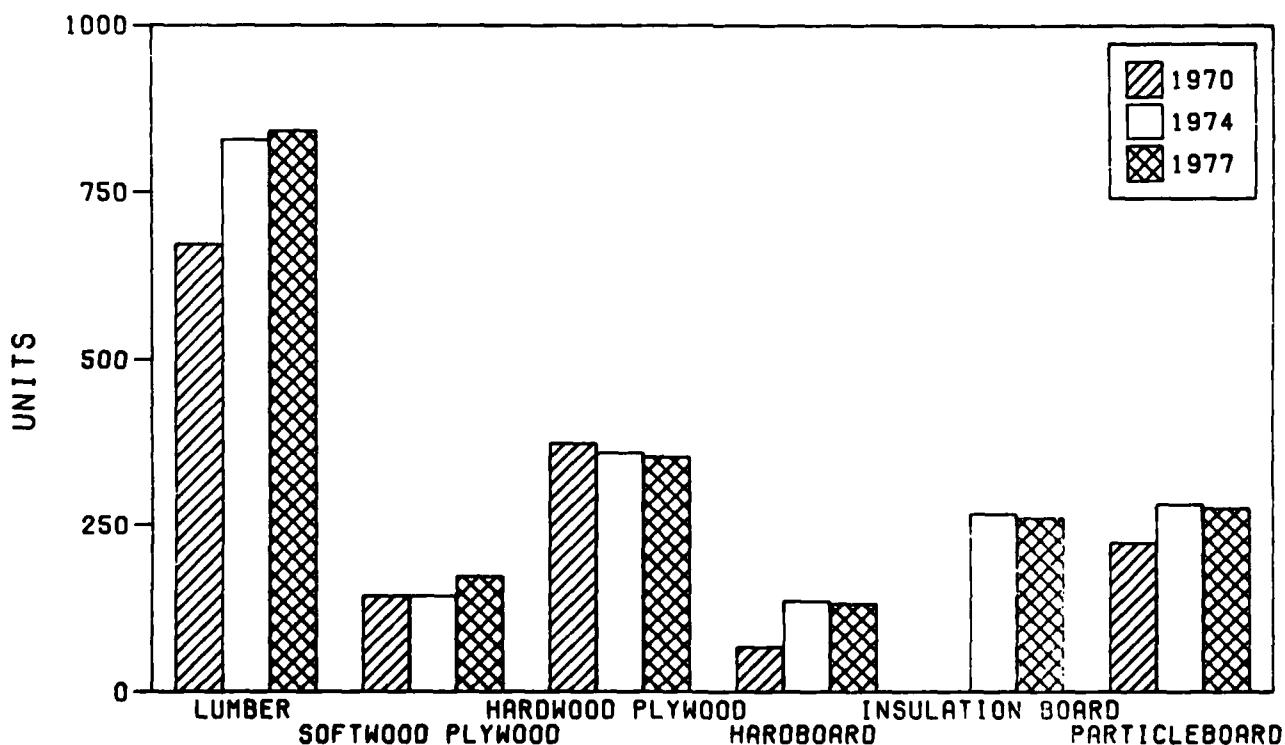


Figure 104.--Wood products used in mobile home construction in the United States, 1970, 1974, and 1977. (ML84 5104)

### Wood Products Used in Housing

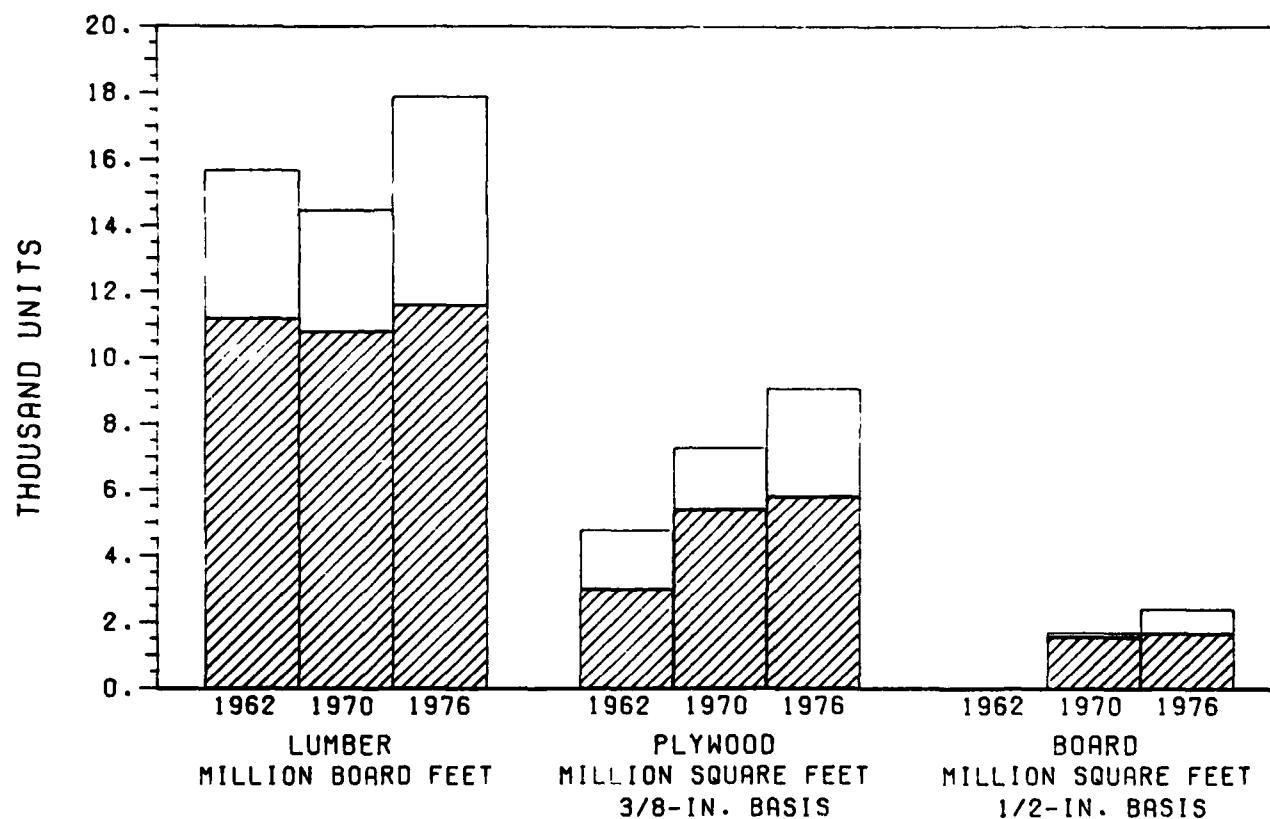


Figure 105.—Average amounts of wood products used per new housing unit in the United States by type of unit, 1962, 1970, and 1976. (ML84 5105)

### Wood Products Used in Housing (con.)

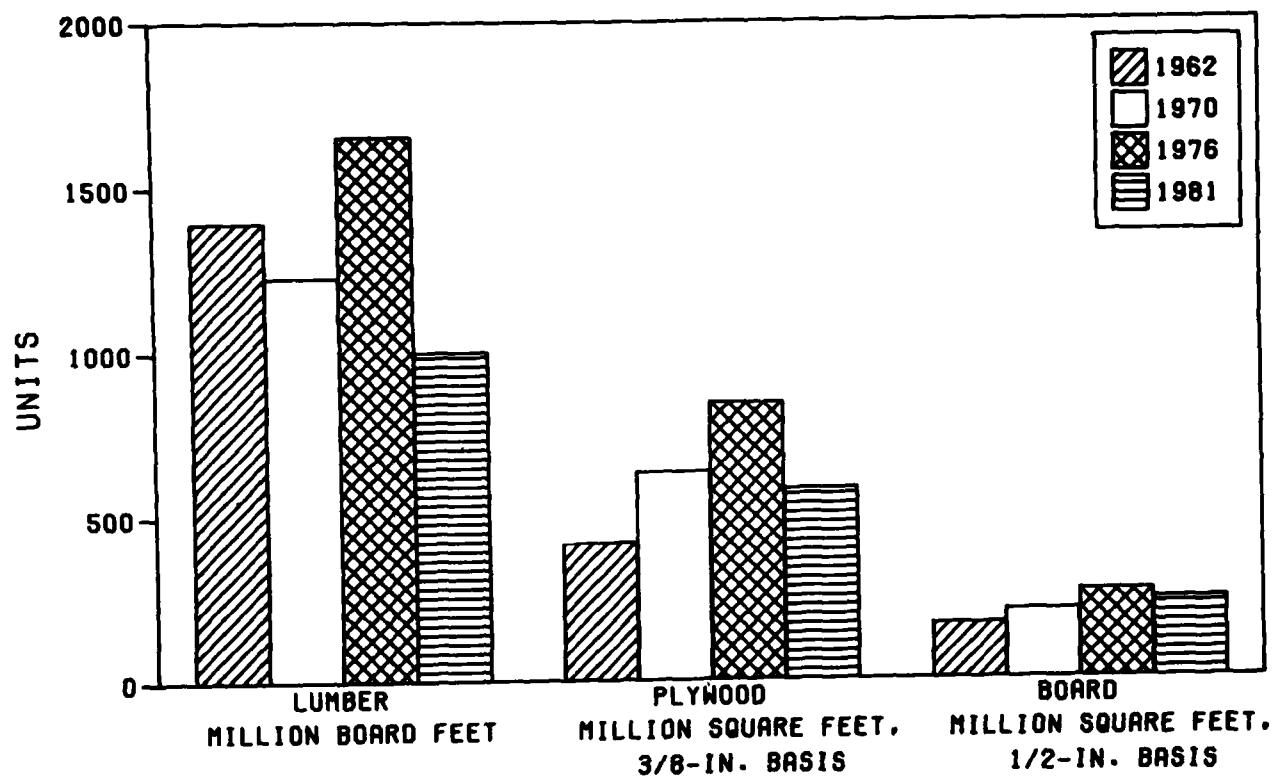


Figure 106.—Wood products used in new housing in the United States, 1962, 1970, 1976, and 1981. (ML85 5106)

## Wood Products Used in Nonresidential and Nonhousekeeping Construction

### All Wood Products

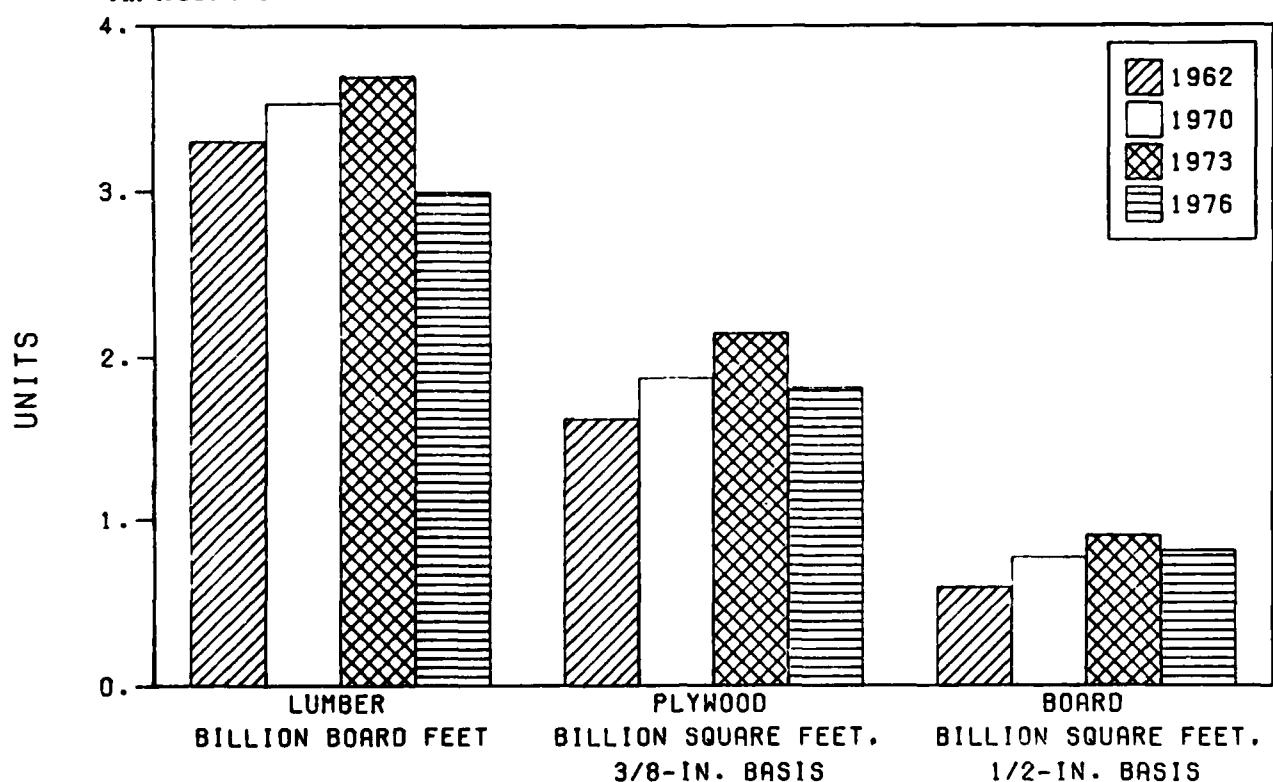


Figure 107.--Wood products used in new nonresidential and nonhousekeeping construction in the United States by product, 1962, 1970, 1973, and 1976. (ML84 5107)

### Lumber and Plywood

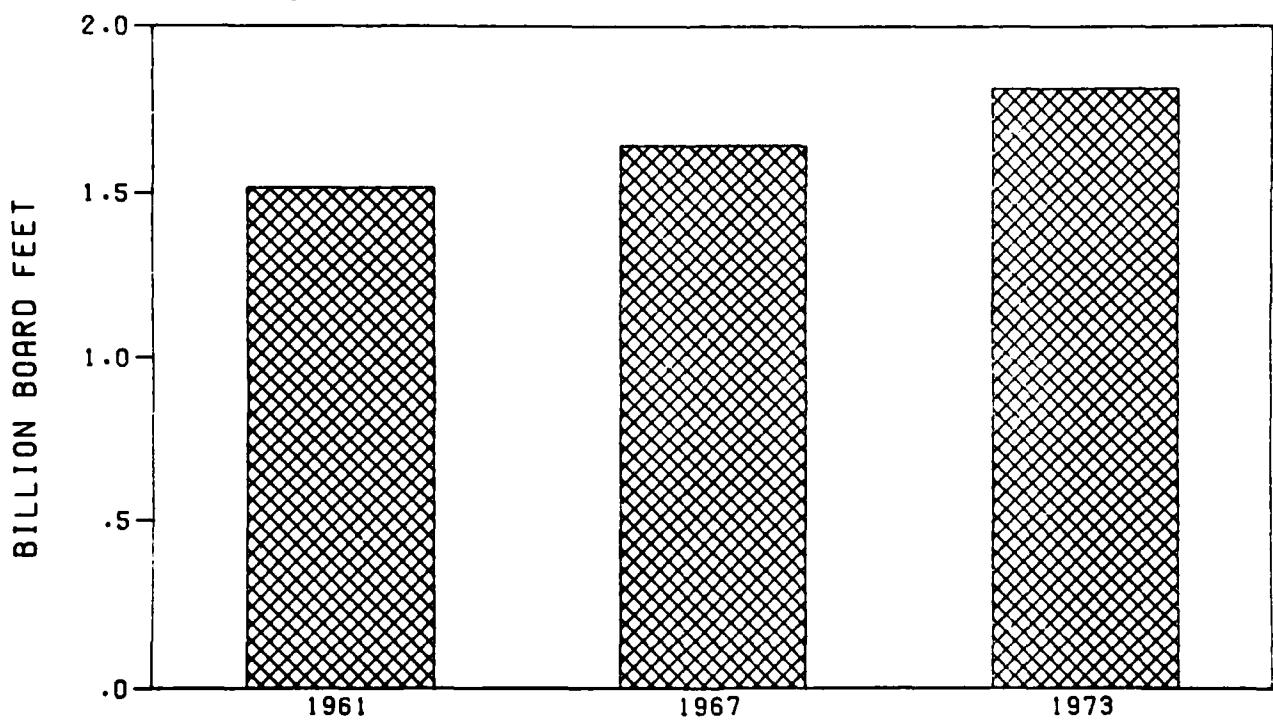


Figure 108.--Lumber used in new nonresidential and nonhousekeeping buildings in the United States, 1961, 1967, and 1973. (ML84 5108)

**Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)**  
**Lumber and Plywood (con.)**

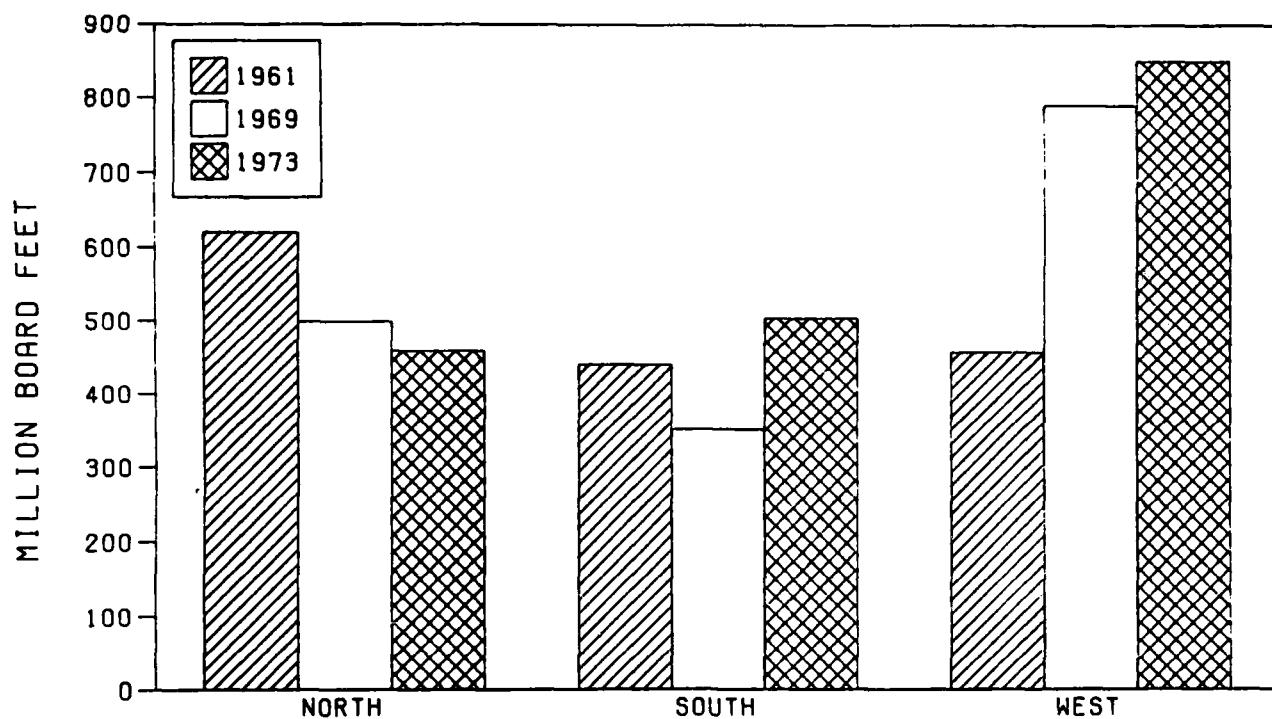


Figure 109.--Lumber used in new nonresidential and nonhousekeeping buildings in the United States by region, 1961, 1969, and 1973. (ML84 5109)

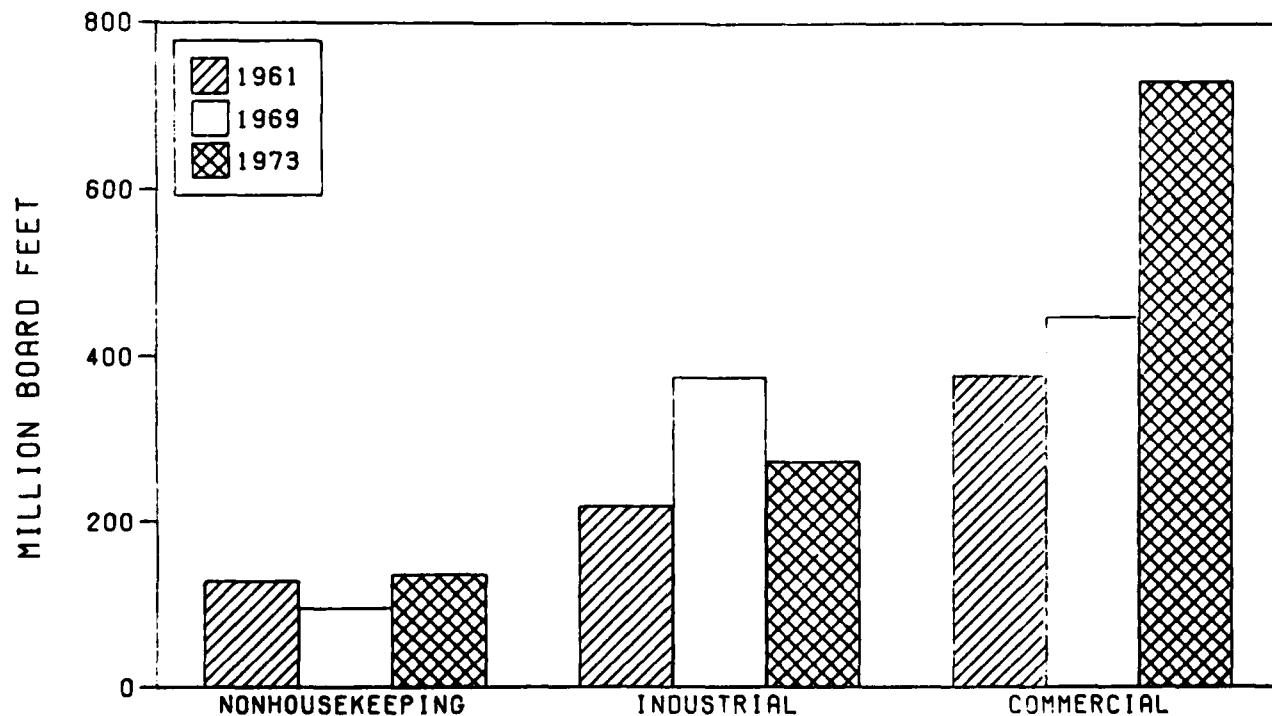


Figure 110.--Lumber used in new nonhousekeeping, industrial, and commercial buildings in the United States, 1961, 1969, and 1973. (ML84 5110)

### Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)

#### Lumber and Plywood (con.)

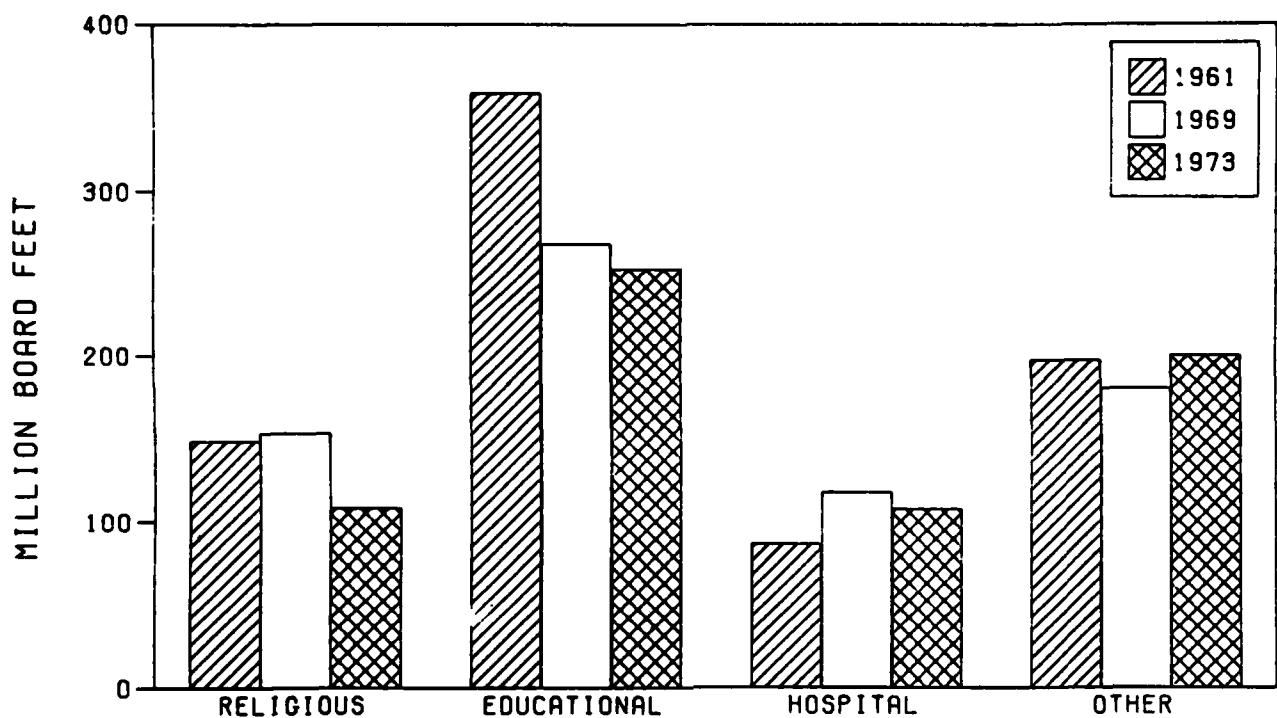


Figure 111.—Lumber used in new religious, educational, hospital, and other buildings in the United States, 1961, 1969, and 1973. (ML84 5111)

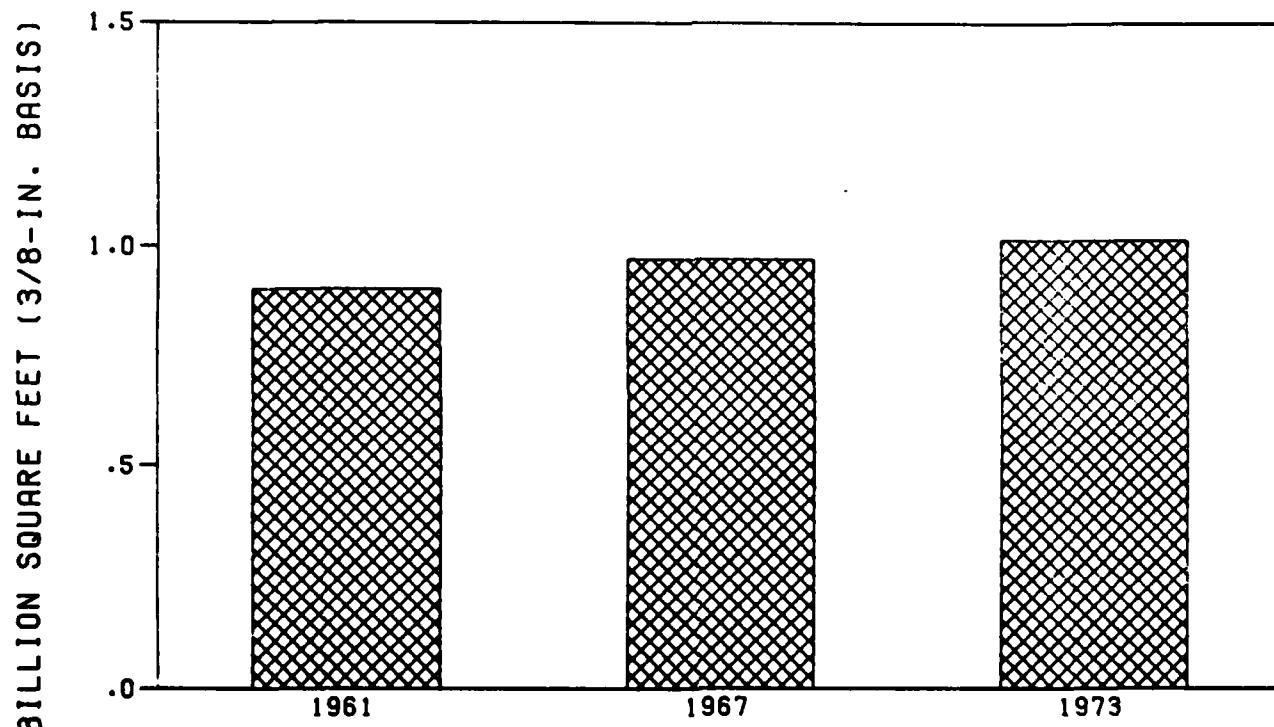


Figure 112.—Plywood used in new nonresidential and nonhousekeeping buildings in the United States, 1961, 1967, and 1973. (ML84 5112)

## Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)

### Lumber and Plywood (con.)

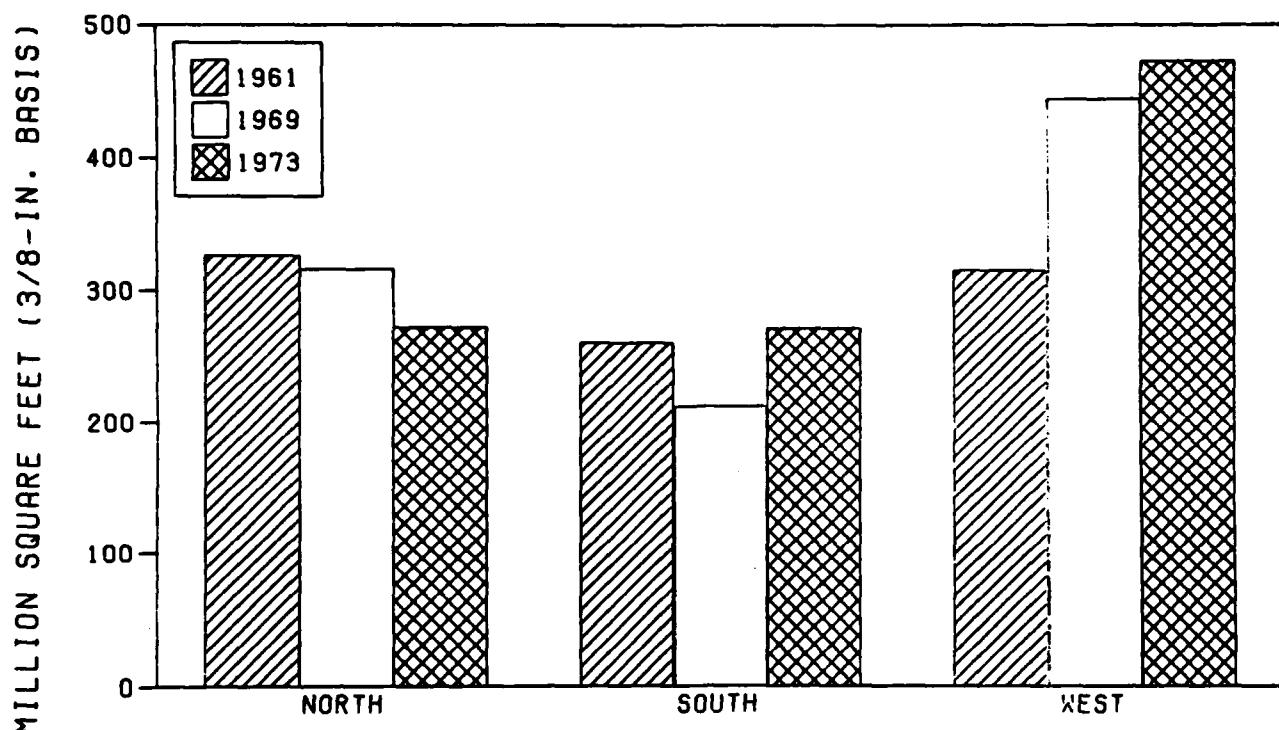


Figure 113.—Plywood used in new nonresidential and nonhousekeeping buildings in the United States by region, 1961, 1969, and 1973. (ML84 5113)

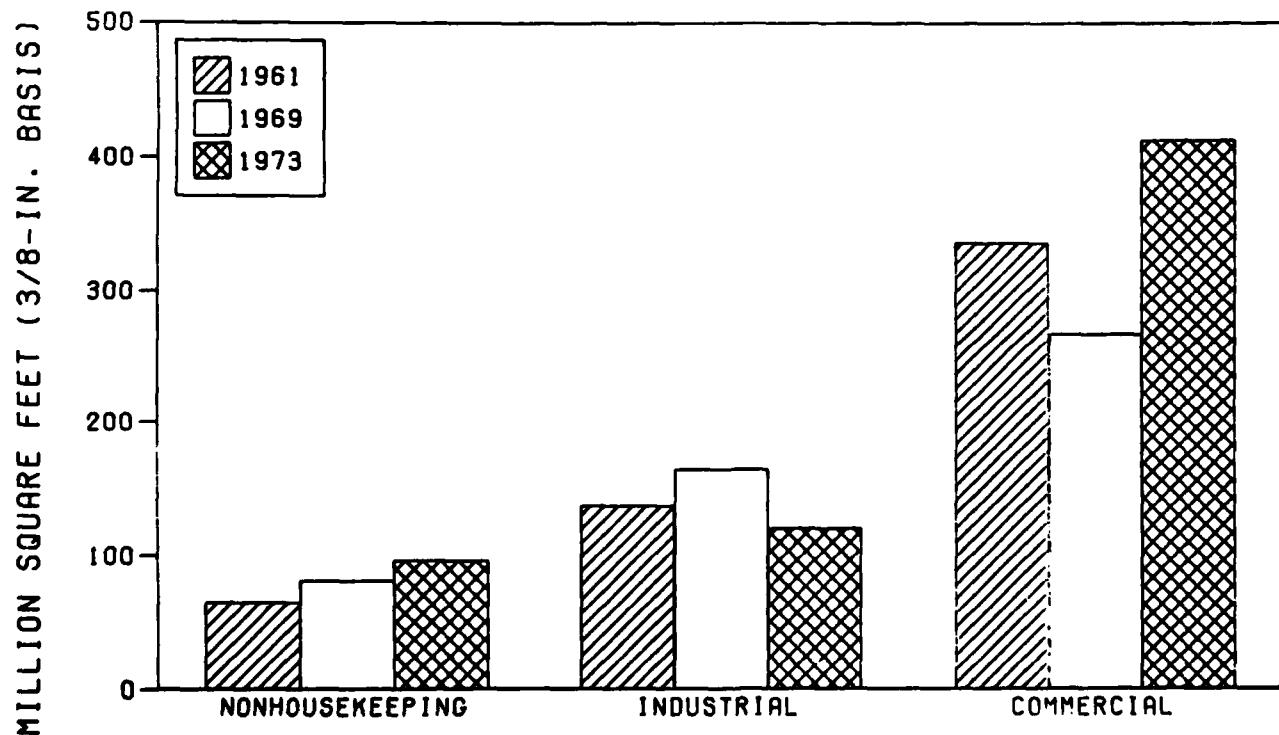


Figure 114.—Plywood used in new nonhousekeeping, industrial, and commercial buildings in the United States, 1961, 1969, and 1973. (ML84 5114)

**Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)**  
**Lumber and Plywood**

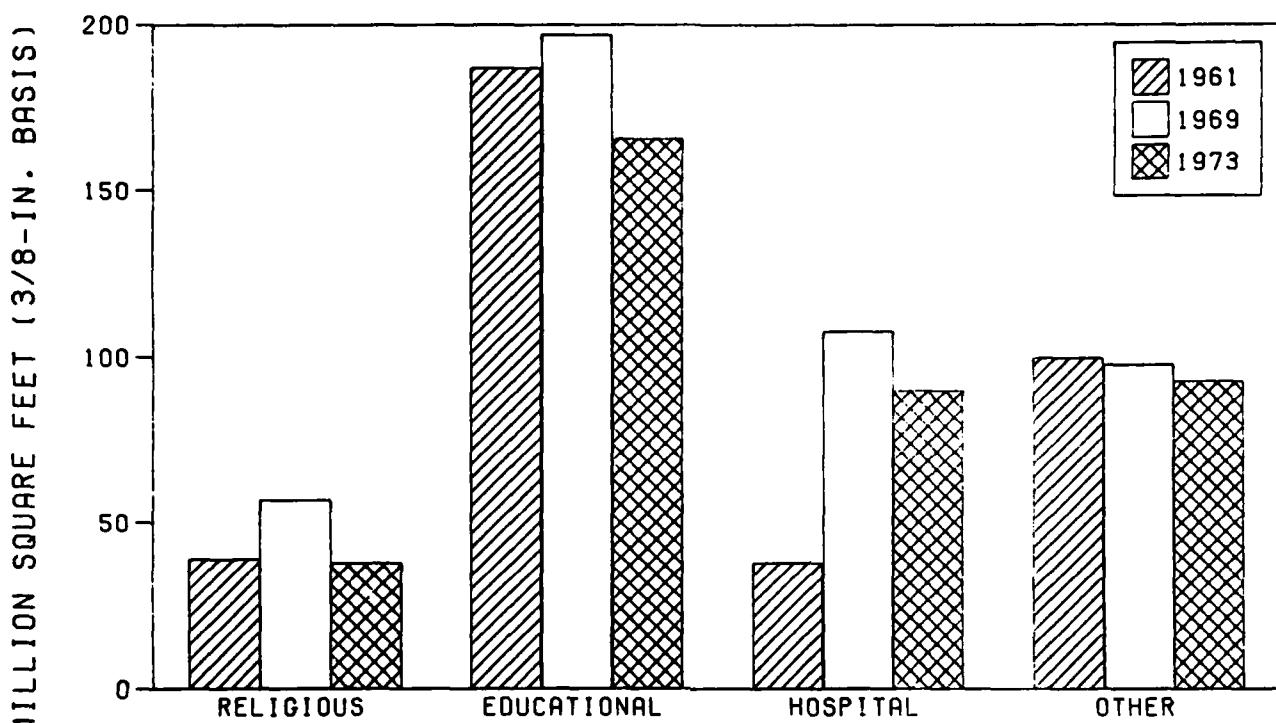


Figure 115.—Plywood used in new religious, educational, hospital, and other buildings in the United States, 1961, 1969, and 1973. (ML84 5115)

**Lumber and Plywood, Area Basis**

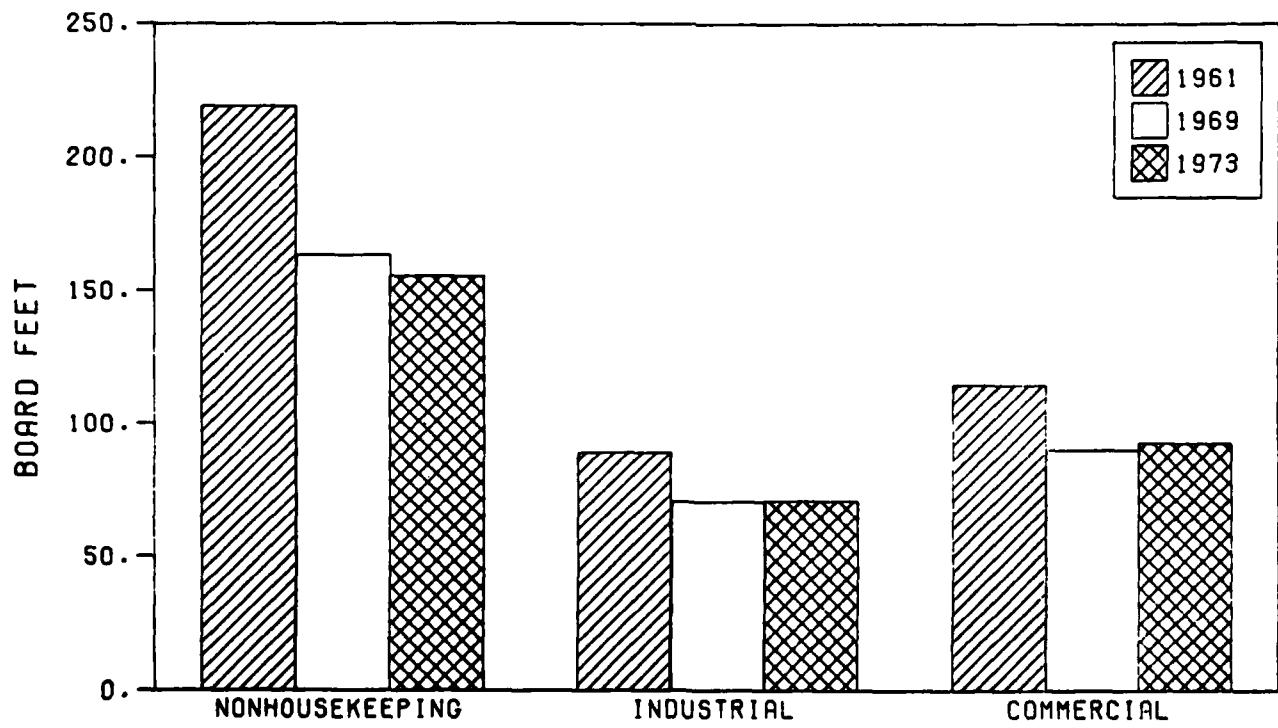


Figure 116.—Lumber used per 100 square feet of floor area in new nonhousekeeping, industrial, and commercial buildings in the United States, 1961, 1969, and 1973. (ML84 5116)

**Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)**  
**Lumber and Plywood, Area Basis (con.)**

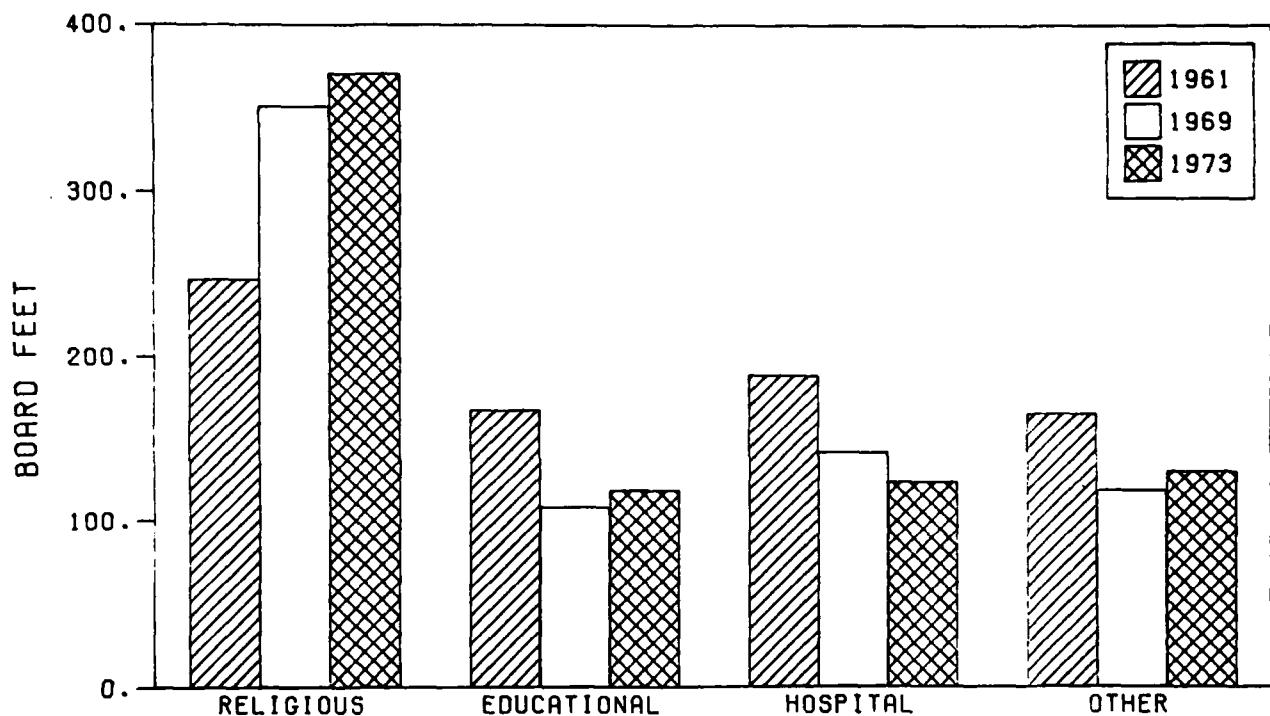


Figure 117.--Lumber used per 100 square feet of floor area in new religious, educational, hospital, and other buildings in the United States, 1961, 1969, and 1973. (ML84 5117)

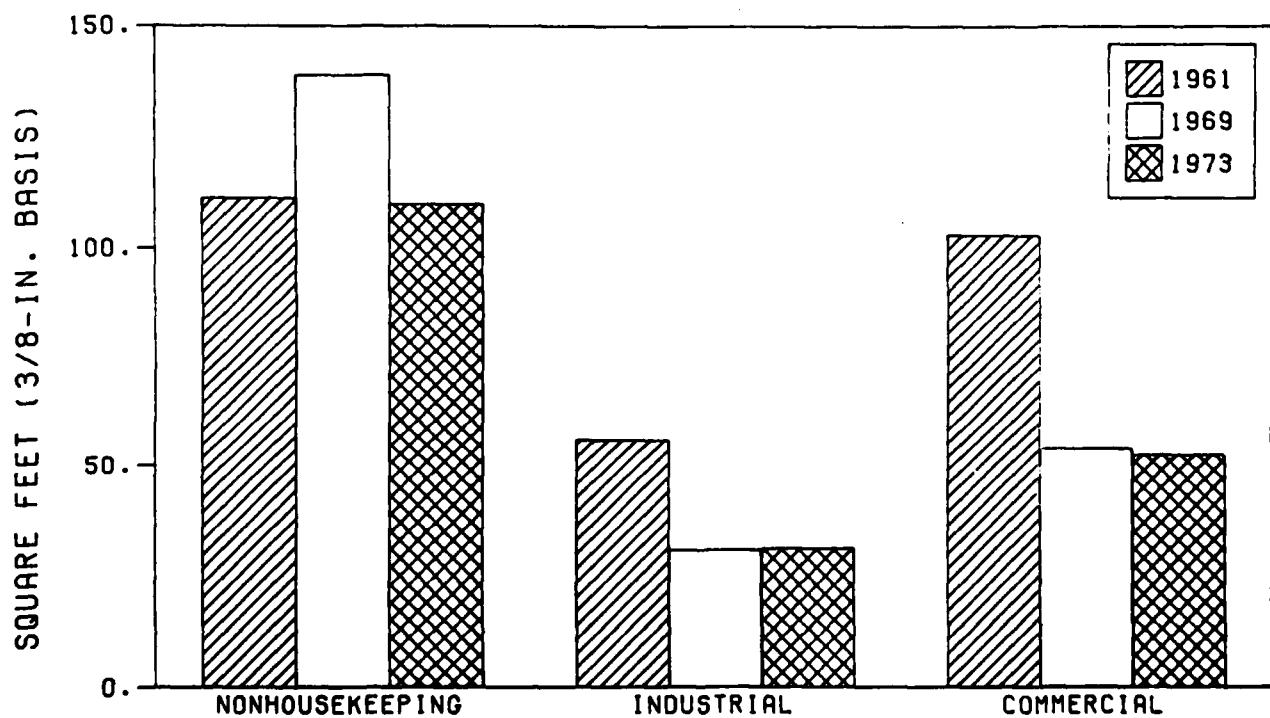


Figure 118.--Plywood used per 100 square feet of floor area in nonhousekeeping, industrial, and commercial buildings in the United States, 1961, 1969, and 1973. (ML84 5118)

**Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)**  
**Lumber and Plywood, Area Basis (con.)**

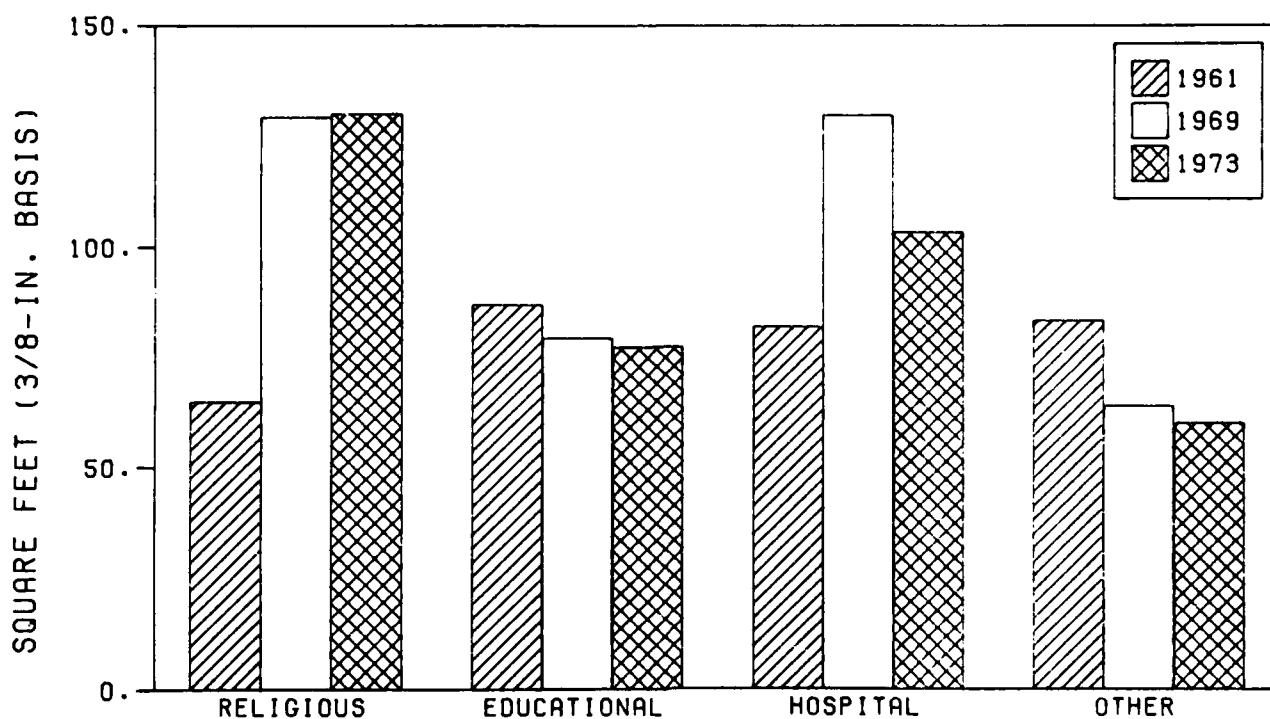


Figure 119.--Plywood used per 100 square feet of floor area in religious, educational, hospital, and other buildings in the United States, 1961, 1969, and 1973. (ML84 5119)

**Other Wood Products**

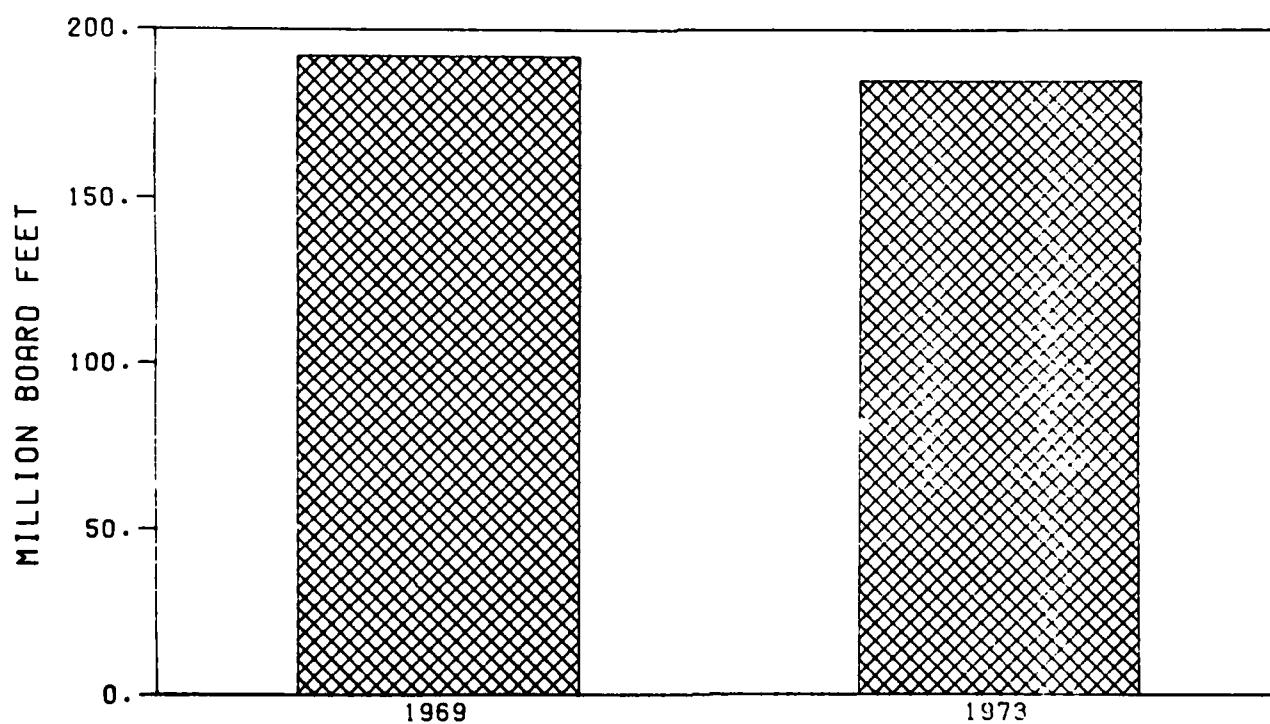


Figure 120.--Glue-laminated lumber used in new nonresidential and nonhousekeeping buildings in the United States, 1969 and 1973. (ML84 5120)

## Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)

### Other Wood Products (con.)

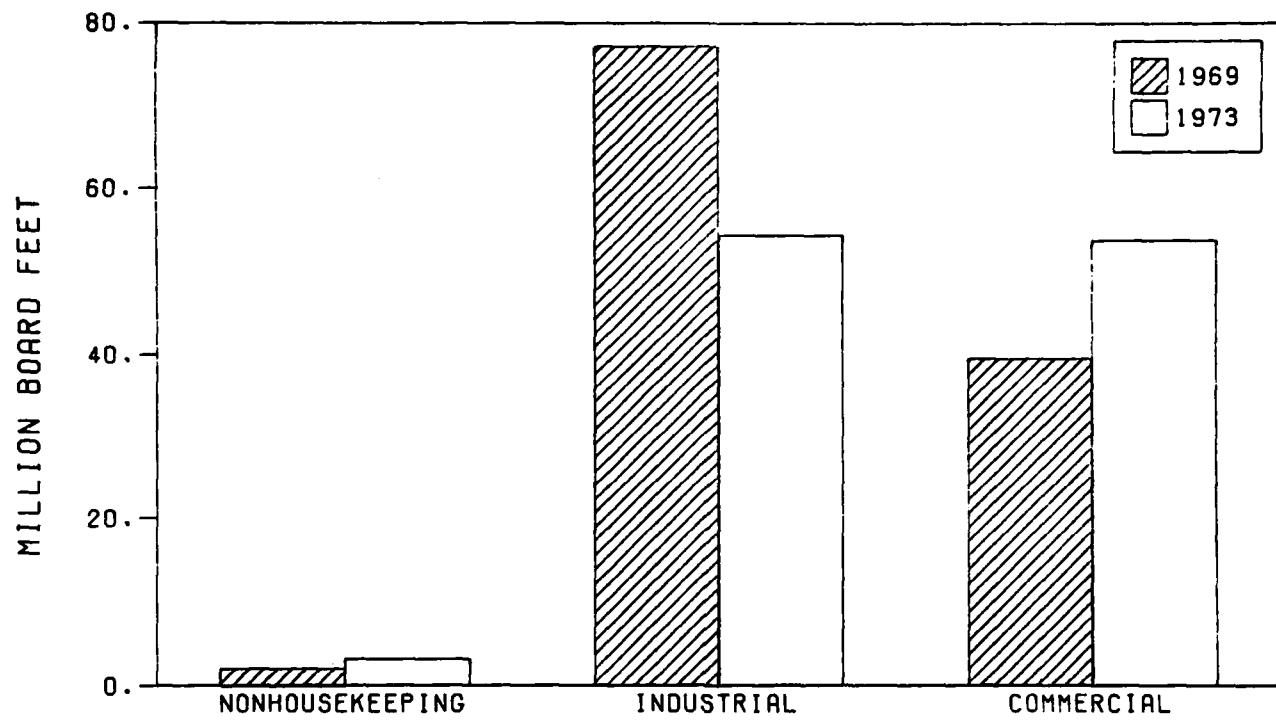


Figure 121.--Glue-laminated lumber used in nonhousekeeping, industrial, and commercial buildings in the United States, 1969 and 1973. (ML84 5121)

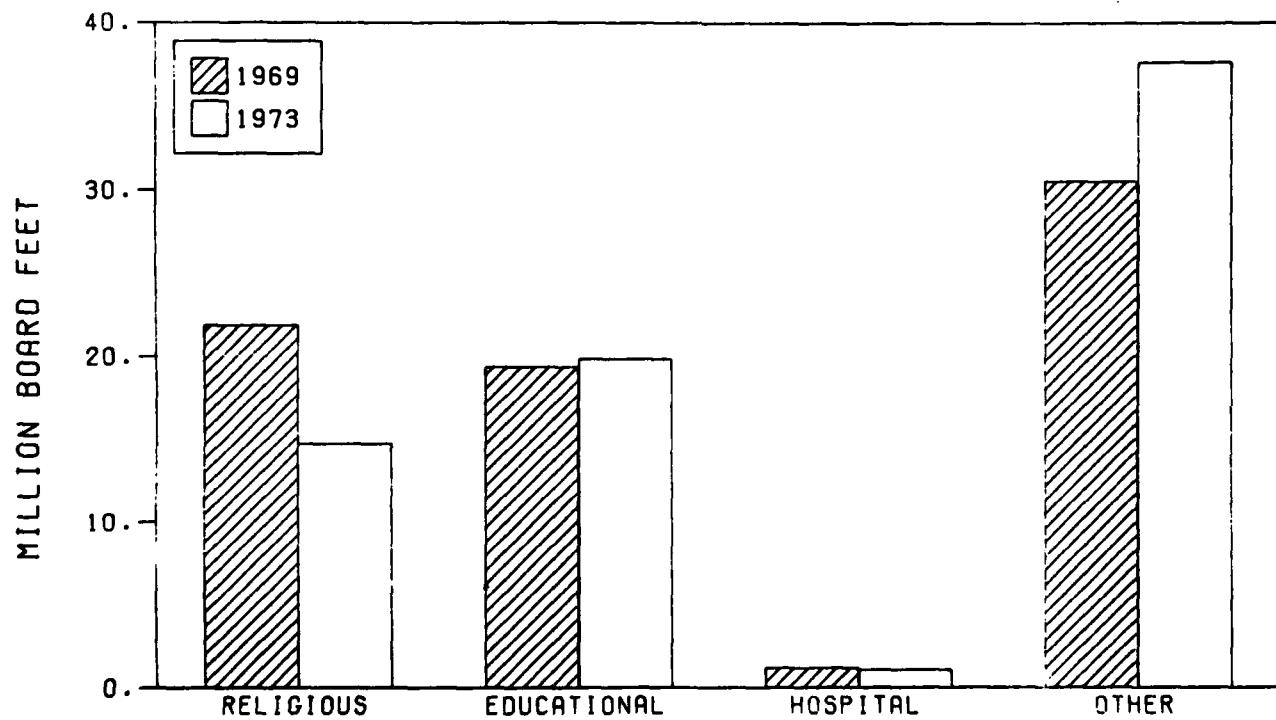


Figure 122.--Glue-laminated lumber used in religious, educational, hospital, and other buildings in the United States, 1969 and 1973. (ML84 5122)

## Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)

### Other Wood Products, Area Basis

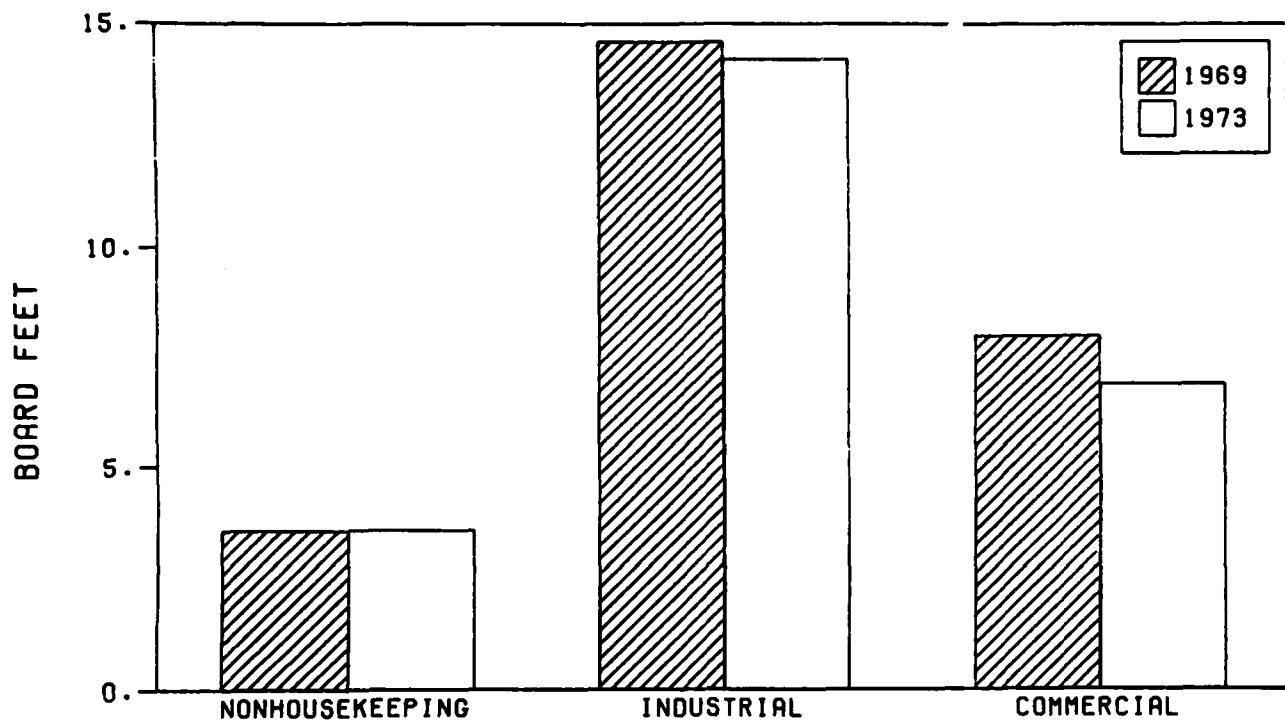


Figure 123.—Glue-laminated lumber used per 100 square feet of floor area in nonhousekeeping, industrial, and commercial buildings in the United States, 1969 and 1973. (ML84 5123)

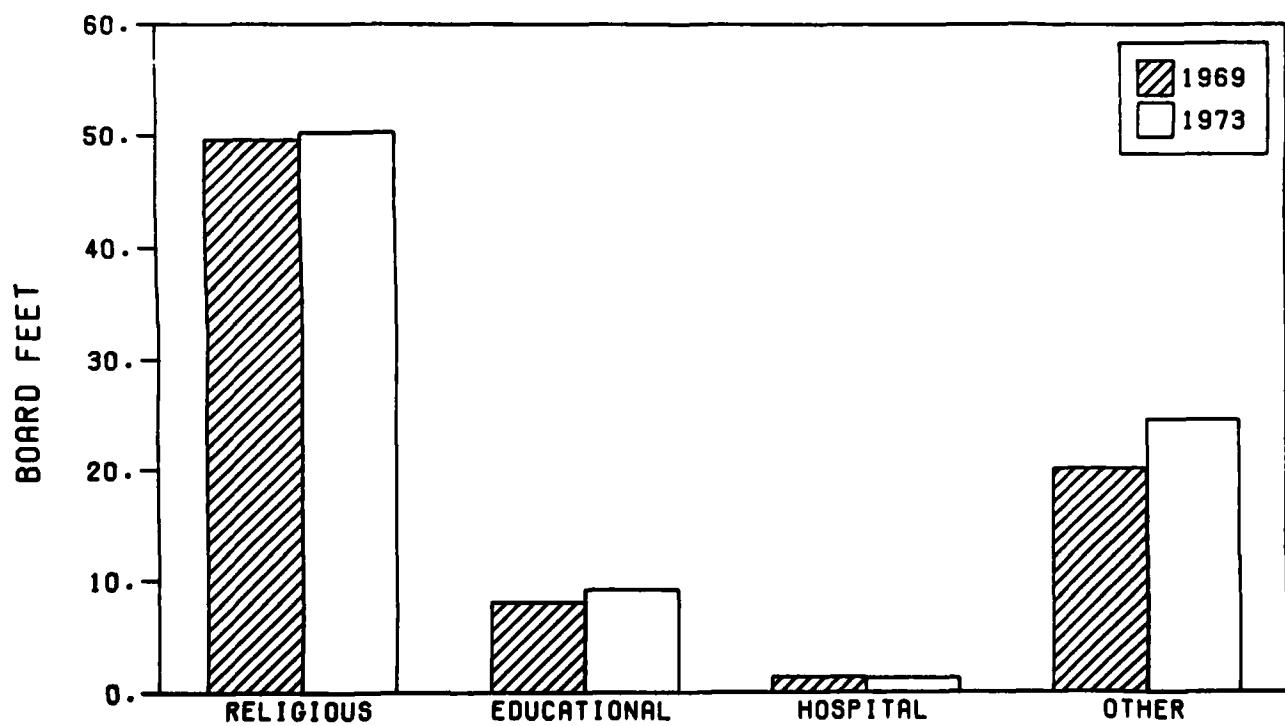


Figure 124.—Glue-laminated lumber used per 100 square feet of floor area in religious, educational, hospital, and other buildings in the United States, 1969 and 1973. (ML84 5124)

## Appendix

Table A-1.—Standard industrial classification (SIC) system definitions of industries included in figures 71-91

SIC No.	Industry	Definition
2431	Millwork	Establishments primarily engaged in manufacturing fabricated millwork. Planing mills primarily engaged in producing millwork are included in this industry, but planing mills primarily producing standard workings or patterns of lumber are classified in 2421. Establishments primarily manufacturing wood kitchen cabinets and bathroom vanities are classified in 2434.
2434	Wood kitchen cabinets	Establishments primarily engaged in manufacturing wood kitchen cabinets and wood bathroom vanities.
2439	Structural wood members, NEC	Establishments primarily engaged in producing laminated or fabricated trusses, arches, and other structural members of lumber. Establishments primarily engaged in fabrication on the site of construction are classified in Division C, Construction. Establishments primarily engaged in producing prefabricated wooden buildings, sections, and panels are classified in 2452.
2441	Nailed and lock corner wood boxes and shook	Establishments primarily engaged in manufacturing nailed and lock corner wood boxes (lumber or plywood), and which also may produce shook for nailed and lock corner boxes.
2448	Wood pallets and skids	Establishments primarily engaged in manufacturing wood and wood-metal combination pallets and skids.
2449	Wood containers, NEC	Establishments primarily engaged in manufacturing wood containers, NEC, classified, such as cooperage, wirebound boxes and crates, and other veneer and plywood containers. Establishments primarily engaged in manufacturing tobacco hogshead stock are classified in 2421, and those manufacturing cooperage stock in 2429.
2451	Mobile homes	Establishments primarily engaged in manufacturing mobile homes. These mobile homes are generally over 35 feet long, at least 8 feet wide, do not have facilities for storage of water or waste, and are equipped with wheels. The products may also have nonresidential uses, such as classrooms or offices. Trailers that are generally 35 feet long or less, 8 feet wide or less and with self-contained facilities are classified in 3792. Portable buildings not equipped with wheels are classified in 2452.
2452	Prefabricated wood buildings and components	Establishments primarily engaged in manufacturing prefabricated wood buildings, sections, and panels. Establishments primarily engaged in fabricating buildings on the site of construction are classified in Division C, Construction.
2499	Wood products, NEC	Establishments primarily engaged in turning and shaping wood, and manufacturing miscellaneous wood products, NEC, from rattan, reed, splint, straw, veneer, veneer strips, wicker, and willow. This industry also includes establishments manufacturing lasts and related products, cork products, hardboard, and wood or metal mirror and picture frames. Establishments primarily engaged in manufacturing pallets and skids in 2448.
2511	Wood household furniture, except upholstered.	Establishments primarily engaged in manufacturing wood household furniture commonly used in dwellings. This industry also includes establishments manufacturing camp furniture. Establishments primarily engaged in manufacturing upholstered furniture are classified in 2512, and reed and rattan furniture in 2519; television, radio, phonograph, and sewing machine cabinets in 2517; and kitchen cabinets and bathroom vanities in 2434.

(Page 1 of 4)

**Table A-1--Standard Industrial classification (SIC) system definitions of Industries included in figures 71-91 (con.)**

<b>SIC No.</b>	<b>Industry</b>	<b>Definition</b>
2512	Wood household furniture, upholstered	Establishments primarily engaged in manufacturing upholstered furniture on wood frames. Shops primarily engaged in reupholstering furniture, or upholstering frames to individual order, are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing dual purpose sleep furniture such as studio couches, sofa beds, and chair beds, are classified in 2515, regardless of the material used in the frame. Establishments primarily engaged in manufacturing wood frames for upholstered furniture are classified in 2426.
2514	Metal household furniture	Establishments primarily engaged in manufacturing padded or plain metal household furniture of a type commonly used in dwellings. Establishments primarily engaged in manufacturing dual purpose sleep furniture, such as studio couches, sofa beds, and chair beds, are classified in 2515, regardless of the material used in the frame.
2515	Mattresses and bedsprings	Establishments primarily engaged in manufacturing innerspring mattresses, box spring mattresses and noninnerspring mattresses containing felt, foam rubber, urethane, hair, or any other filling material; and assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots. This industry also includes establishments primarily engaged in manufacturing dual purpose sleep furniture, such as studio couches, sofa beds, and chair beds, regardless of the material used in the frame. Establishments primarily engaged in manufacturing automobile seats and backs are classified in 2531; individual wire springs in 3495; and paddings and upholstery filling in 2293.
2517	Wood television, radio, phonograph, and sewing machine cabinets	Establishments primarily engaged in manufacturing wood cabinets for radios, television sets, phonographs, and sewing machines.
2519	Household furniture, NEC	Establishments primarily engaged in manufacturing reed, rattan, and other wicker furniture, plastics and fiberglass household furniture and cabinets, and household furniture, NEC.
2521	Wood office furniture	Establishments primarily engaged in manufacturing wood office furniture, whether padded, upholstered, or plain.
2522	Metal office furniture	Establishments primarily engaged in manufacturing metal office furniture, whether padded or plain. Establishments primarily engaged in manufacturing safes and vaults are classified in 3499.
2531	Public building and related furniture	Establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries. Establishments primarily engaged in manufacturing seats for public conveyances, as well as seats for automobiles and aircraft, are included in this industry. Establishments primarily engaged in manufacturing stone furniture are classified in 3281, and concrete furniture in 3272.
2541	Wood partitions, shelving, lockers, and office and store fixtures	Establishments primarily engaged in manufacturing wood shelving, lockers, office and store fixtures, prefabricated partitions, plastic laminated fixture tops, and related fabricated products. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases are classified in 3585, and safes and vaults in 3499.

Table A-1.—Standard industrial classification (SIC) system definitions of industries included in figures 71-91 (con.)

SIC No.	Industry	Definition
2542	Metal partitions, shelving, lockers, and office and store fixtures	Establishments primarily engaged in manufacturing metal shelving, storage racks, lockers, office and store fixtures, prefabricated partitions, and related fabricated products. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases are classified in 3585, and safes and vaults in 3499.
2591	Drapery hardware and window blinds and shades	Establishments primarily engaged in manufacturing curtain and drapery rods, poles, and fixtures; and venetian blinds and other window blinds and shades, regardless of the materials used, except canvas shades and awnings (2394).
2599	Furniture and fixtures, NEC	Establishments primarily engaged in manufacturing furniture and fixtures, NEC, including furniture specially designed for use in restaurants, bars, cafeterias, bowling establishments, and ships.
3731	Ship building and repairing	Establishments primarily engaged in building and repairing all types of ships, barges, and lighters, whether propelled by sail or motor power or towed by other craft. This industry also includes the conversion and alteration of ships. Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installation, etc., are classified in other industries.
3732	Boat building and repairing	Establishments primarily engaged in building and repairing all types of boats. Establishments primarily engaged in cleaning and storing boats and in the rental of dock space, and yacht clubs are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing rubber and nonrigid plastic boats are classified in Major Group 30 (rubber and miscellaneous plastic products).
3792	Travel trailers and campers	Establishments primarily engaged in manufacturing travel trailers for attachment to passenger cars or other vehicles, pickup coaches (campers) or caps (covers) for mounting on pickup trucks and self-contained motor homes. Travel trailers are generally 35 feet long or less, 8 feet wide or less, and have storage facilities for water and waste. Establishments primarily engaged in manufacturing mobile homes are classified in 2451.
3931	Musical instruments	Establishments primarily engaged in manufacturing pianos, with or without player attachments; organs; other musical instruments; and parts and accessories for musical instruments.
3944	Games, toys, and children's vehicles; except dolls and bicycles	Establishments primarily engaged in manufacturing games and game sets for adults and children, and mechanical and nonmechanical toys. Important products of this industry include games such as chess, checkers, dominoes, puzzles, and other indoor games; and toys, such as toy furniture, doll carriages and carts, construction sets, mechanical trains, toy guns and air rifles, and other mechanical games and toys; baby carriages and strollers; children's velocipedes and tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles, except bicycles (3751). Establishments primarily engaged in manufacturing dolls are classified in 3942; and sporting and athletic goods for children and adults in 3949.

Table A-1.—Standard industrial classification (SIC) system definitions of industries included in figures 71-91 (con.)

SIC No.	Industry	Definition
3949	Sporting and athletic goods, not elsewhere classified	Establishments primarily engaged in manufacturing sporting and athletic goods, not elsewhere classified, such as fishing tackle; golf and tennis goods, baseball, football, basketball, and boxing equipment; roller skates and ice skates, gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Establishments primarily engaged in manufacturing athletic apparel are classified in Major Group 23 (apparel and other finished products made from fabrics and similar materials), small arms ammunition in 3482 and firearms in 3484.
3991	Brooms and brushes	Establishments primarily engaged in manufacturing household, industrial, and street sweeping brooms; and brushes, such as paintbrushes, toothbrushes, toilet brushes, and household and industrial brushes.
3993	Signs and advertising displays	Establishments primarily engaged in manufacturing electrical, mechanical, cutout, or plate signs and advertising displays, including neon signs and advertising novelties. Sign painting shops doing business on a custom basis are classified in 7399. Establishments primarily engaged in manufacturing electric signal equipment are classified in 3662, and commercial lighting fixtures in 3646.
3995	Burial Caskets	Establishments primarily engaged in manufacturing burial caskets and cases including shipping cases of wood or other material except concrete. Establishments primarily engaged in producing other goods for use by morticians are classified on the basis of the product, such as burial garments in Major Group 23 (apparel and other finished products made from fabrics and similar materials).

(Page 4 of 4)

END

END